

SEQUENCE LISTING

<110> Craig Rosen,
Steve Ruben

<120> Human Pancreas and Pancreatic Cancer Associated Gene Sequences and
Polypeptides

<130> PA105PCT

<140> Unassigned

<141> 2000-03-08

<150> 60/124,270

<151> 1999-03-12

<160> 928

<170> PatentIn Ver. 2.0

<210> 1

<211> 565

<212> DNA

<213> Homo sapiens

<400> 1

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ctactgattt ccttgtagat attttgaaac agataagaaa ctctccgtg gaaattactg 480
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<212> DNA

<213> Homo sapiens

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<221> misc feature

<222> (1093)

<223> n equals a,t,g, or c

<400> 2

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cgtgtatact tccttcatga agtctcatcg ctgctatgac ctgattccca caagctccaa 180
attggttgta tttgatacgt ccctgcagggt gaagaaagct ttttttgctt tggtgactaa 240
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<211> 480

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (471)

<223> n equals a,t,g, or c

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tctgctaaca acctgtggtt taaaatatag gccaaacttta tgttcaaaca ttatgttgat 360
aatattttta gcagtattac acagtggagg tccaaatttg attagacttt tgcattgatt 420
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<211> 608

<212> DNA

<213> Homo sapiens

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<222> (582)
<223> n equals a,t,g, or c

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aaatggtact ggrtccttagt ttctgtgcag aatattctgt gaattttggg aaatgtaagt 180
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gcaatggacc tagttcacag taataggtgc aaagaaagac caaatggact ttgcagtatt 300
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aacttttatt ttagatatatt ataagcatac agtacataat tgatgaaatt gatatttact 480
agagatttat ggtagagaat ggacgacatt caataactgg gagcccgaga ttgtycactt 540
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gaaatagg 608

<210> 5
<211> 696
<212> DNA
<213> Homo sapiens

<400> 5
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gctggaaatc gacttcggtt tcagttggag ttggaatttg tgcaatgttt agccaaccca 180
aattacctta attttcttgc ccaaagaggt tacttcaaag acaaagcttt tgtaatttat 240
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tgtttacaca tgtttagagct gctccaatat gaacacttcc gaaaggagct ggtgaatgct 360
cagtgtgcga aatttattga tgaacagcag attctacatt ggcagcacta ttcccggaa 420
cggatgcgcc ttcagcaagc cttggcagag cagcaacagc aaaataacac atcgggaaaa 480
tgaaaaactg gatacaaacg aggcacttaa tacatgtata taatgtattt cttttgtaca 540
gtgaagacaa aaaaaatgaa aactcttcct atctacctt attatggtag cccttagaac 600
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<210> 6
<211> 292
<212> DNA
<213> Homo sapiens

<400> 6

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aaatacagct gttgcaaata ttgaatactg atatgttatt cacagtaaaa ataactcttag 180
ttgtaagaag tctatttgaa ttataaaaata aatatatttc atacctgtca tggattaaaa 240
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<210> 7

<211> 362

<212> DNA

<213> Homo sapiens

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<221> misc feature

<222> (66)

<223> n equals a,t,g, or c

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<221> misc feature

<222> (326)

<223> n equals a,t,g, or c

<400> 7

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gacttgaggt catccagggc acgactcctt gaaactgttc actgatttga gctgtaatcc 180
agaaatgatg aagaatgcag cagattcata tttctcactt ttacaagggt tcataaattc 240
tttgggatgg aatctaccca agaaagcaag ttacggttat atttcaaaat ttccaagtgg 300
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tt                                     362
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<210> 8

<211> 405

<212> DNA

<213> Homo sapiens

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<221> misc feature

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<220>

<221> misc feature

<222> (402)

<223> n equals a,t,g, or c

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cctattgatg ttggggaatt ccttctgcca caatcatttc acttatttct tcctatactg 120
tttcattata gctaactcct tcagtcctta attctttaag ttgctaattc tttgtgacta 180
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ttttctatac caggtaatga ctacagccat ttctgtctta tagttaaagg gtctacaaaa 240
gaatcaactt ctgcactcct gcagaaatca aaacccatgg tatttgtgca agaagtatga 300
tagaccataa atgargtgcc ttgggtgaac gtctctgaga tcaacatgtg caaataccyc 360
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<210> 9
<211> 1027
<212> DNA
<213> Homo sapiens

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<223> n equals a,t,g, or c

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<220>
<221> misc feature
<222> (2)
<223> n equals a,t,g, or c

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ctgtccgtcc agagccggca tccttgcttg tctaaagcct taactaagac tcccgccccg 180
ggctggccct gtgcagacct tactcagggg atgtttacct ggtgctcggg aaggaggagg 240
aaggggccgg ggagggggca cggcaggcgt gtggcagcca cacgcaggcg gccagggcgg 300
ccagggagccc aaagcaggat gaccacgcac ctccacgcca ctgcctcccc cgaatgcatt 360
tggaacccaa gtctaaactg agctcgcagc ccccgcgccc tccctccgce tcccatcccc 420
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gggggac 1027

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<210> 10
<211> 1515
<212> DNA
<213> Homo sapiens

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<220>
<221> misc feature
<222> (1515)
<223> n equals a,t,g, or c

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<400> 10

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<211> 847

<212> DNA

<213> Homo sapiens

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<223> n equals a,t,g, or c

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<221> misc feature

<222> (795)

<223> n equals a,t,g, or c

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aacgattata gccgggacg gggagatgcc tactatgaca cagactatcg gcattcctat 420
gaatatcagc gggagaacag cagttaccgc agccagcgca magccggaga agcacagacg 480

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gcggargarg cgcacggarc atttagccgy tcatcttcgg tgagtgccag cccaggccct 540
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<210> 12

<211> 506

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (416)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (486)

<223> n equals a,t,g, or c

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ccctcagctc cgtctccggc gcggtacact gccccgtttt ccctgtgagt tgacctgctc 180
cgggccgcgc gccgccaatg gcaggggccc ctccgaccac ggccttcggg caggcggtga 240
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<210> 13

<211> 267

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (259)

<223> n equals a,t,g, or c

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aattttttta aaaaaatttg tgtgcttctg ctctactact cactgggtgtg tccctctgcc 180
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aatcacagct cactgcagnc ttgtcct 267

<210> 14
<211> 919
<212> DNA
<213> Homo sapiens

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<210> 15
<211> 2559
<212> DNA
<213> Homo sapiens

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<222> (2543)
<223> n equals a,t,g, or c

<220>
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<222> (2544)
<223> n equals a,t,g, or c

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gagccagtca ccgtgtccca gagagctggg tccagaccca ctgctggcca gacacctgga 660
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acctgagcca gaaacctggg agcagatcct ccgccgaaat gtcctccagc atgggggcagc 780
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gttgagtaat gctcgtctgt gtgttttagt ttcatacact gttatctgtg tttgctgagg 2460
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<210> 16

<211> 1504

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (665)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1503)

<223> n equals a,t,g, or c

<400> 16

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tgccatcgag gttctgctat ttttgagaag ctgaagcaac tccaaggaca cagttcacag 60
aaatttggtt ctcagcccca aaatactgat tgaattggrrg acaattacaa ggactctctg 120
gccaaaaacc cttgaagagg ccccgtagag gaggcagtga ggagcttttg attgctgacc 180

```

tgtgtcgtac caccaccagaa tgtgcactgg rggctgtgcc agatgcctgg gggggaccct 240
cattcccctt gctttttttg gcttcctggc taacatcctg ttattttttc ctggaggaaa 300
agtgatagat gacaacgacc acctttccca agagatctgg tttttcggag gaattattagg 360
aagcgggtgc ttgatgatct tccctgcgct ggtgttcttg ggcctgaaga acaatgactg 420
ctgtgggtgc tgcggcaacg agggctgtgg gaagcgattt gcgatgttca cctccacgat 480
atgtgtgtg gttggattct tgggagctgg atactcgtt atcatctcag ccatttcaat 540
caacaagggc cctaaatgcc tcatggccaa tagtacatgg ggctaccct tccacgacgg 600
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gcgccatcca ggtggtcaat ggccctcctg ggaccctctg tggggactgc cagtgttctg 780
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gaattcagag gtaacgtaac aaagattgtg tgtgttttag gaggggggac aaaacgttga 1440
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aana 1504

<210> 17

<211> 833

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (160)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (258)

<223> n equals a,t,g, or c

<400> 17

atgatctacc acccagcctt catcaagtat gtctttgaca actggctgca agggcacggg 60
cgatacccat ctaccggcat cctctcagtc atcttctcaa tgcattgtctg cgatgaggtg 120
gacttgtacg gcttcggggc agacagcaaa ggaactggn caccactact gggagaacaa 180
cccacccgcg ggggtttttc gcaagacggg ggtgcacgat gcagactttg agtctaactg 240
gacggccacc ttgggctncc atcaataaaa tccggatctt caaggggaga tgacgcatga 300
agggctgagg atggacgcac tgtcacacct ctgcatttcc agccccagca tcttgcctga 360
gccgttccat cccggagctt ggaggggag cctcaggtgt gtgcctgggc accgctcaca 420
gcctcttgca cccagccgtt ggcagcatct actcagcaag gtcactaagc tctgccagcg 480
tggcagagca tgtcttgaa cctgtcttga gtggggacaa cgccccccac tgctgcccta 540
gagctgggga gacgctggga aaggttcaac ctccacacac taaaatcatt ttggctcctg 600
gggcaagctt kgggaatgaa tgtggaagat gcctatattc tgagagacag gacagtttcc 660

caggaagatg ggcagagact tkagtggcga ttacctccag cacagagacg tgccaggcgg 720
tggtggcgct cggggcgaga tgctgccctt ctttgcacsa agcctggcct cttgcttggc 780
gtgataaccc tgtcatcttc ccaaagctca tttatgagcc accagaggct cct 833

<210> 18
<211> 643
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (103)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (572)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (613)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (643)
<223> n equals a,t,g, or c

<400> 18
gccttgggtct cctgcattct gaccagggca tctgcagtgc acgaggggtt atggcaaacc 60
ccattgaagc cagttccgta tgggctggac ctggactgcg gantccctgg caccacagag 120
gtcatgtct gtttgaacc cctgtcagaa ttacaccctc ctggatgaac cttccgaag 180
cacagagaac tcagcagggt ccaggggtg cgataaaaac atgagcggct ggtaccgctt 240
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cactgcctgt gccattgga gtggcaactg ctgtttctgg aaaacagagg tgctggtgaa 420
ggcctgcccc ggcgggtacc atgtgtaccg gttggaaggc actccctggt gtaatctgag 480
atactgcaca gaccatcca ctgtggagga caagtgtgag aaggcctgcc gccccgagga 540
ggagtgcctt gccctcaaca gcaactgggg tntttctgc agacaaggac ctcaatagtt 600
ctgatgtcca canttttgca gcctcagtta gactttgggg ccn 643

<210> 19
<211> 340
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (262)
<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (333)

<223> n equals a,t,g, or c

<400> 19

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aattcggcac gagggaaaaa ttrcacaaac aatctcagcc tgggtaaatg agagatgccc 60
tgttagctta ttctccccag ttacccttt ctccccaggt gatcaagtat ggattaaaga 120
ctgggaatgt agcttctttg tgcccatggt ggataggacc ccagattgts atcctgacca 180
ctctcaccgc tgtgaaggta gaaggaatcc cagcctggat ccaccacagc catgtaaaac 240
ctgcagcgcc tgaaacctgg gnggcaagac caagcccgga caacccttgc agagtgcact 300
tgaagatgat gacaagccct gttccagtca canccagaag 340

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<210> 20

<211> 673

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (3)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (4)

<223> n equals a,t,g, or c

<400> 20

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ggnnctttcc ctttccccgg gcctggggcg caatcaggtg gagtcgagag gccggaggag 60
gggcaggagg aaggggtgcy gtcgcgatcc ggacccggag ccagcgcgga gcacctgcgc 120
ccgcggctga caccctcgct cgcagtttgt tcgcagttta ctgcacacc agtttcccc 180
accgcgcttt ggattagtgt gatctcagct caaggcaaaag gtgggatatc atggcatcta 240
tctgggttgg acaccgagga acagtaagag attatccaga ctttagccca tcagtggatg 300
ctgaagctat tcagaaagca atcagaggaa ttggaactga tgagaaaatg ctcacagca 360
ttctgactga gaggtcaaata gcacagcggc agstgattgt taaggaatat caagcagcat 420
atggaaagga gctgaaagat gacttgaagg gtgatctctc tggccacttt gagcatctca 480
tggtggccct agtgactcca ccagcagctt ttgatgcaaa gcagctaaag aaatccatga 540
agggcgcggg aacaaacgaa gatgccttga ttgaaatctt aactaccagg acaagcaggc 600
aaatgaagga tatctctcaa gcctatttat acagtataca agaagagtct tgggagatgg 660
acattagttt ccg 673

```

<210> 21

<211> 415

<212> DNA

<213> Homo sapiens

<400> 21

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aattcggcac gagctgaatt atgtttaaat ttattgtagg atgctgatct tctggacaat 60
cacacttttc ctgctgggag cagccaaagg aaaagaagtt tgctatgagg acctcgggtg 120

```

```
cttttttgac actgagccct ggggcgggac agcaatcagg cccctgaaaa ttctcccctg 180
gagccctgag aagatcggca cccgcttcct gctgtacacc aatgaaaacc caaacaactt 240
tcaaattctc ctctctcttg atccatcaac aattgaggca tcaaattttc aaatggacag 300
aaagaccccg ttcatcatcc atgggtttca tagacaaagg ggatgagagc ttgggtgaca 360
gacatgtgca agaaactttt tcggggttgg aggaggtgaa ctgcatttgc gttgg      415
```

<210> 22

<211> 633

<212> DNA

<213> Homo sapiens

<400> 22

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aattcggcag agatttcaaa tggacagaaa gacccggttc atcatccats gcttcataga 60
caaaggagat gagagctggg tgacagacat gtgcaagaaa ctgttcgagg tggaggaggt 120
gaactgcata tgcgtggact ggaagaaggg ctcccaagcc acctacacac aggctgccaa 180
caacgtgcga gtggtgggcg ccaggtggc ccagatgctc gacatcctct tgacagagta 240
tagctacccc ccttccaaag ttcacctcat tggccacagc ctgggagccc acgtggctgg 300
agaggcagga agcaagactc caggcctgag caggattaca gggttggatc ctgtagaagc 360
aagtttcgag agtactcctg aagaggtgcg acttgatccc tctgaatgct gacttttttg 420
atgtgattca cacggatgca gctcccctga tccattctt gggttttgga acgaaccaac 480
agatgggtca tcttgacttc ttccccaatg gaggagagag catgccggga tgcaagaaga 540
atgccctgtc tcagatcgtg gatctagatg gcatctgggc gggaaccgga gacttttttg 600
cttgaattc acctaagaag ctacaagtta tta      633
```

<210> 23

<211> 2423

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (4)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (12)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (18)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (54)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2409)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2422)

<223> n equals a,t,g, or c

<400> 23

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cngncagtga cngtgcnga ttcccggtgc gaccacgcg tccggaacag ctgnaaacct 60
tttgaggga gaaggaggag gagcttgaag tcagcttga gcctcccaag tggaaaggctc 120
ccagggtgct gagcttctct ctgaaatcca aagtcctcaa cgaaatgtca gctttgatgt 180
gcttcctgcc tttaatgcac tgggtcagct gagttctggc tccacaccca gccccgaggt 240
ttatgcaggg ctcatgtatc tgtataaatc ctgggacctc ccgggaggag agttttctac 300
ctgtttcaca gtctgcagc gaaacttcat tcgctcccgg cccaccaaac taaaggattt 360
aattcgcctg gtgaagcact ggtacaaaga gtgtgaaagg aaactgaagc caaaggggtc 420
tttgcccca aagtatgcct tggagctgct caccatctat gcctgggagc akgggagtg 480
agtgcggat ttgacactg cagaagggtt ccggacagtc ctggagctgg tcacacaata 540
tcagcagctc tgcattctct ggaargtcaa ttacaacttt gaagatgaga ccgtgagaaa 600
gtttctactg agccagttgc agaaaaccag gcctgtggat cttggaccca gccgaaccca 660
cagggtgacgt ggggtggagg gaccgttggt gttggcatct tctggcaaaa gaagyaagg 720
aatggttacc ctctccctgc ttcaaggatg ggactggaaa cccaatacca ccttggaag 780
tgccggtaaa agtcatctaa aggaggcgtt gtctggaat agccctgtaa caggsttgaa 840
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tccaagcagg aagaaggaaa agatacccaa aggtcaagaa cacagtgatt ttattagaag 1260
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gccacacctc tccaaagccc tccctacct ccaagatata cctgatata tccaccagga 1440
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cactagagga accctacacc ccaaccctgg ggggaatgta gggaagagg ggccaagcca 1740
accgtggggt tagctctaata tattaagata tgcattataa ataaatacca aaaaattgtc 1800
tctggcaata gttaccttcc cagatacagg tcccccttt ttccccctaa ctcttttaag 1860
caatgattgt aactattagg agacattgct ctcccacgta tgtttttctt tttagacaat 1920
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tggctccctat tcctccttcc cttgcttctt ggacttcttg aaatcaatca agactgcaaa 2160
ccctttcata aagtcttgcc ttgctgaact ccctctctgc aggcagcctg cctttaaaaa 2220
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tagttgctgt catccacttt atgtgcatct tatttctgtc aacttgatt ttttttcttg 2280
tatttttcca attagtcctt cttttttcct tccagtctaa aaaaggaatc ctctgtgtct 2340
tcaaagcaaa gctctttact ttcccttggt ttctcataac tctgtgatmt tgctctcggg 2400
gcttcmaant cakccaagtc cng 2423

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<210> 24

<211> 384

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (357)

<223> n equals a,t,g, or c

<400> 24

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ggaagctcca ggcaaacagc ccagcaaacg gcagcactca gctaaaagga agactcacag 60
aacacagttg aagaaggaaa gtggcgatgg acctcatccc aaatttggcg gtggaaacct 120
ggcttctcct ggctgtcagc ctggtgctcc tctatctata tgggacccgt acacatggac 180
tttttaagag actgggaatt ccagggccca cacctctgcc ttgttgagg aatgttttgt 240
cctatcgta gggctctctg aaatttgaca cagagtgtca taaaaagtat ggaaaaatgt 300
gggggtgagt attctgaaaa cctccattgg atagacctgc tactgtgagg aggttanccc 360
atgcagagat ctctggccag ttg 384

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<210> 25

<211> 900

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (11)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (880)

<223> n equals a,t,g, or c

<400> 25

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cctgcagacc ncaggtctgc ggcaggatgg gagccgccag atcgccatcg cggccatggt 60
ggccaacttc accaagccca cagccgacgc gccctcgctg ctgcagcatg acgaggtgga 120
gacctacttc catgagtttg gccacgtgat gcaccagctc tgctcccagg cggagtctgc 180
catgttcagc gggaccacag tggagcggga ctttgtggag gcgccgtcgc agatgctgga 240
gaactgggtg tgggagcagg agccgctgct gcggatgttc gcggcactac cgcacaggca 300
gcgccgtgcc ccgggagctc ctggagaagc tcattgagtc ccggcaggcc aacacaggcc 360
tcttcaacct gcgccagatc gtcctcgcca aggtggacca ggccctgcac acgcaracgg 420
acgcagaccc cggcgaggag tatgcgcggc tctgccagga gatcctcggg gtccccggca 480
cgccaggaac caacatgcct gcaaccttcg gccatctggc aggtggctac gacgcccagt 540
actacgggta cctgtggagc gaggtgtatt ccatggacat gttccacacg cgcttcaagc 600
aggagggtgt cctgaacagc aaggttggca tggattacag aagctgcacg ctgagacccg 660

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gcgggtccga ggatgccagc gccatgctga ggcgcttcct gggccgtgac cccaagcagg 720
acgccttcct cctgagcaag gggctgcagg tcgggggctg cgagcccag ccgcagtctg 780
gytgaggcct ggcattgcga ctgcccakty tgggcytgcg ctcccgcgc cctggtgctt 840
tagcccccg cagaggatgg ggcaggytyt ggcamatgcn tgggattggc aggtggctga 900

<210> 26

<211> 1322

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (363)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (366)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1321)

<223> n equals a,t,g, or c

<400> 26

ggaagtgaga agccgggtgg ggcaggctgg aaggaagacg aacctacgaa gcagagatct 60
gaagacagca tgtacacagc cattccccag agtggtcttc cattcccagg ctcaagtgcag 120
gatccaggcc tgcattgtgt gcgggtggag aagctgaagc cggtgcctgt ggcgcaagag 180
aaccaggggc tcttcttctc gggggactcc tacctagtgc tgcacaatgg cccagaagag 240
gtttcccatc tgcacctgtg gataggccag cagtcattcc gggatgagca gggggcctgt 300
gccgtgctgg ctgtgcacct caacacgctg ctgggagagc ggctgtgca gcaccgcgag 360
gtnagnggca atgagttctga cctcttcatg agctacttcc cacggggcct caagtaccag 420
gaaggtggtg tggagtcagc atttcacaag acctccacag gagccccagc tgccatcaag 480
aaactctacc aggtgaaggg gaagaagaac atccgtgcc aagagcgggc actgaactgg 540
gacagcttca aactgggga ctgcttcatc ctggacctgg gccagaacat cttcgcttgg 600
tgtggtggaa agtccaacat cctggaacgc aacaaggcga gggacctggc cctggccatc 660
cgggacagtg agcgacaggg caaggcccag gtggagattg tcaactgatg ggaggagcct 720
gctgagatga tccaggtcct gggccccaag cctgctctga aggagggcaa ccctgaggaa 780
gacctcacag ctgacaaggc aaatgccag gccgcagctc tgtataaggt ctctgatgcc 840
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cccatcttca agcaattttt caaggactgg aaatgagggt gggcgtcttc ctgccccatg 1140
ctcccctgcc ccccaccacc tgcttcttgc cttctcttgc tgccctggtc gtgcagaggt 1200
gccccctgca gatgttcaat aaaggagaca agtgctttcc cagctctttt cctgcaaaaa 1260
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1320
ng 1322

<210> 27

<211> 457
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (432)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (435)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (454)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (457)
<223> n equals a,t,g, or c

<400> 27
aacctcattg cctgctcata aagtatkagc aggcaatgag gtttcacaaa tctcatctaa 60
atactctcca atctattagc aaaaatcaga gtaaaataca gaggaaaggc actgctttct 120
gttaattgat ttaacatgca tgaattagct ccctctgagt tccaggcact atgctgagag 180
tacaaagaag acacaagtct gctttcaagc aactcactgt gaaagtgttt ttgaagggag 240
gaacagaaat gagacccta tctttcccta taaaacaac atttttactg tcttttgcc 300
gccaatctgt atttgaaacc attggacact gattctctgg sctgggactt tggcattgat 360
gggtttctgc ctttcttctc agcctctgcc tctattgcat ttattaaact gcattgtgtg 420
caaaaaaaaa anaanaaaaa aaaaaagggg gggnccn 457

<210> 28
<211> 596
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (538)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (583)
<223> n equals a,t,g, or c

<220>
<221> misc feature

<222> (593)

<223> n equals a,t,g, or c

<400> 28

```
cgcggcgggc tcctcgggtgc gcgacccccg gctcagagga ctctttgctg tcccgcaga 60
tgcggatgct gctggcgctc ctggccctct ccgcggcgcg ccatcggcag tgcagagtca 120
cactgggtgct acgaggttca agccgagtcc tccaactacc cctgcttggg gccagtcaag 180
tgggggtggaa actgccagaa ggaccgccag tcccccatca acatcgtcac caccaaggca 240
aaggtggaca aaaaactggg acgcttcttc ttctctggct acgataagaa gcaaactgtg 300
actgtccaaa ataacgggca ctcagtgatg atgttgctgg agaacaaggc cagcatttct 360
ggaggaggac tgccctgccc ataccaggcc aaacagttgc acctgcactg gtccgacttg 420
ccatataagg gctcggagca cagcctcgat kgggaagcat ttgccatggg agatgcacat 480
agttacatga gaaagagaag gggacatccg aggaatgtga aagaggccca ggaccctnaa 540
agacgaattt gcggtgctgg gctttttttg ggtggagggt ggnaaccggt ttnaac 596
```

<210> 29

<211> 436

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (64)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (372)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (410)

<223> n equals a,t,g, or c

<400> 29

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ccaaagaggg gttgmtctct cttcacctrc tctgttctac agcacactac cagaagacag 60
cagnaatgaa aagcattttac tttgtggctg gattatattgt aatgctggta caaggcagct 120
ggcaacgttc cttcaagac acagaggaga aatccagatc attctcagct tcccaggcag 180
accactcag tgatcctrat cagatgamcg aggacaagcg ccattcacag ggcacattca 240
ccagtgacta cagcaagtat ctggactcca ggcgtgccca agattttgtg cagtgggtga 300
tgaataccaa gaggaacagg aataacattg ccaaactgca cgggtgaattt tgagagacat 360
gctggaagg gncctttttac cagtgggtga agtttcttat ttgggaaggn caagctgccc 420
aagggtattca ttgctt 436
```

<210> 30

<211> 1314

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature
 <222> (572)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1177)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1284)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1295)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1306)
 <223> n equals a,t,g, or c

<400> 30
 gctgggggct ggtgggggagc aggggaaggg aatgtgacca ggtctaggtc tggagtttca 60
 gcttgggacac tgagccaagc agacaagcaa agcaagccag gacacacccat cctgccccag 120
 gcccagcttc tctcctgcct tccaacgcca tggggagcaa tctcagcccc caactctgcc 180
 tgatgccctt tatcttgggc ctcttgtctg gaggtgtgac caccactcca tggcttttgg 240
 cccggcccca gggatcctgc tctctggagg gggtagagat caaaggcggc tccttccgac 300
 ttctccaaga ggccaggca ctggagtacg tgtgtccttc tggcttctac ccgtaccctg 360
 tgcagacacg tacctgcaga tctacggggt cctggagcac cctgaagact caagacaaaa 420
 agactgtcag gaaggcagag tgcagagcaa tccactgtcc aagaccacac gacttcgaga 480
 acggggaata ctggccccgg tctccctact acaatgtgag tgatgagatc tctttccact 540
 gctatgacgg ttacactctc cggggctctg cnaatcgcac ctgccaagtg aatggccggt 600
 ggagtgggca gacagcgatc tgtgacaacg gagcggggta ctgctccaac ccgggcatcc 660
 ccattggcac aaggaagggtg ggcagccagt accgccttga agacagcgtc acctaccact 720
 gcagccgggg gcttaccctg cgtggctccc agcggcgaac gtgtcaggaa ggtggctctt 780
 ggagcgggac ggagccttcc tgccaagact ccttcattga cgacaccctt caagaggtgg 840
 ccgaagcttt cctgtcttcc ctgacagaga ccatagaagg agtcgatgct gaggatgggc 900
 acggcccagg ggaacaacag aagcgggaaga tcgtcctgga cccttcaggc tccatgaaca 960
 tctacctggt gctagatgga tcagacagca ttggggccag caacttcaca ggagccaaaa 1020
 agtgtctagt caacttaatt gagaagggtg caagtatatg tgtgaagcca agatatggtc 1080
 tagtgacata tgccacatac cccaaaattt ggggtcaaagt gtctgaagca gacagcagta 1140
 atgcaggact gggtcacgga agcagcttca atgraantca attwttgaag accacaagtt 1200
 tgaagtcagg ggcttaacac caaggaaggg ccctccaggg agttgttaca gcattgatga 1260
 ggttgggcca gatggacgtt cccntccttg aaggnntggg aaccgncacc cgcc 1314

<210> 31
 <211> 1467
 <212> DNA

<213> Homo sapiens

<400> 31

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aagagattcc cccctcacta tgcattgggt ccttgcaggt aaacgatcga cgcattctag 60
atgggatgtt tgctatctgt ggtgtttctg acagcaagtt ccgtaccatc tgctcctcag 120
tagacaagct ggacaaggtg tcctgggaag aggtgaagaa tgagatgggt ggagagaagg 180
gccttgcacc tgaggtggct gaccgcattg gggactatgt ccagcaacat ggtgggggat 240
ccctggtgga acagctgctc caggatccta aactatccca aaacaagcag gccttggagg 300
gcctgggaga cctgaagttg ctctttgagt acctgacctt tttggcattg atgacaaatc 360
tcctttgacc tgagccttgc tcgaagggtt ggattactac actggggtga tctatgaggc 420
agtgtgcta cagaccccag cccaggcagg ggaagagccc ctgggtgttg gcagtgtggc 480
tgctggagga cgctatgatg ggctagtggg catgttcgac cccaaagggc gcaaggtgcc 540
atgtgtgggg ctacgattg ggggtggagc gattttctcc atcgtggaac agagactaga 600
ggctttggag gagaagatac ggaccacgga gacacaggtg cttgtggcat ctgcacagaa 660
gaagctgcta gaggaaagac taaagcttgt ctcagaactg tgggatgctg ggatcaaggc 720
tgagctgctg tacaagaaga acccaaagct actgaaccag ttacagtact gtgaggaggc 780
aggcatccca ctggtggcta tcatcggcga gcaggaaactc aaggatgggg tcatcaagct 840
ccgttcagtg acgagcaggg aagaggtgga tgtccgaaga gaagacctg tggaggaaat 900
caaaaggaga acaggccagc ccctctgcat ctgctgaact gaacaaacta tcagaggaaa 960
ggaagtggga ctggcactat ttgaggttaa gacaaactgc atatgtactt caattgcttt 1020
gcacttttcc gtttcagcgg aagacctgaa gagtggtcag aacagagcct ttgattttta 1080
ttatggttat ttattgatt attactggca aaaacggcca ggtacaacac ctttttcata 1140
caaggcccag gaggcttagt ccagtctgtg ctccctgggt acaaggacct agcctgagat 1200
ggtcccatct gcagggcccc gcaccagtgt gagcagatgc ctccccacca ccaattgcca 1260
aaggtccaat aaaatgcctc aaccacggag tctgctgtgt tcagtgtatg ctagccccgc 1320
cttccccagc agaccaatgt agggatggaa aaggagagaa aacagtaaac ttgtgacctt 1380
gaggttcttg tctccagcgt tccacctgcg gcttgggagc ttctcctcgg gaggcagccc 1440
ccgtacatta cgcacccccg gaactttt                                     1467
```

<210> 32

<211> 2346

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2346)

<223> n equals a,t,g, or c

<400> 32

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gcagtacaag cggcactgca tcaactgcct gcacgtcgtc accctgtaca atcgaatcaa 60
gagagacccg gccaaggctt ttgtgccag gactgttatg attgggggca aggcagcgcc 120
cggttaccac atggccaagc tgatcatcaa gttggtcacc tccatcggcg acgtcgtcaa 180
tcatgaccca gttgtgggtg acaggttgaa agtgccttc ctggagaact accgtgtgtc 240
cttggtgtag aaagtgatcc cggccgctga tctgtcgcag cagatctcca ctgcaggcac 300
cgaggcctca ggcacaggca acatgaagtt catgctcaac ggggccctca ccatcggcac 360
catggacggc gccaacgtgg agatggccga ggaggcsggg gccgagaacc tcttcattct 420
cggcctgcgg gtggaggatg tcgaggcctt ggaccggaag gggtagaatg ccagggagta 480
ctacgaccac ctgcccagc tgaagcaggc cgtggaccag atcagcagtg gctttttttc 540
tcccaaggag ccagactgct tcaaggacat cgtgaacatg ctgatgcacc atgacagggt 600
caagggtgtt gcagactatg aagcctacat gcagtggcag gcacagggtg accagctgta 660
```

```
ccggaacccc aaggagtgga ccaagaaggt catcaggaac atcgctgct cgggcaagtt 720
ctccagtgc cggaccatca cggagtatgc acgggagatc tggggtgtgg agccctccga 780
cctgcagatc ccgcccccca acatcccccg ggactaggca caccctgcct tggcgggacc 840
agcgggcatt tgttttcttg ctgactttgc acctcctttt tccccaaac actttgccag 900
ccgctggtgg tccctgcttt tctgagtacc atgtttccag gaggggcat gggggtcagg 960
gtggttttga gagagcaggg taaggaagga atgtgctaga agtgctccta gtttcttgta 1020
aaggaagcca gagttgacag taaaaaggt cgtggccagc cctgcagctt cagcacctgc 1080
cccacccaga gtgggagtca ggtggagcca cctgctgggc tccccagaa ctttgcacac 1140
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cagtggccat agtgaagcct gggaatgagt gttactgcag catctgggct gccagccaca 1260
gggaagggcc aagccccatg tagccccagt catcctgcc agccctgcct cctggccatg 1320
ccgggagggg tcgcatcctc taggcatcgc cttcacagcc ccctgcccc tgccctctgt 1380
cctggctctg caccctggtat atgggtcatg gaccagatg gggctttccc tttgtagcca 1440
tccaatgggc attgtgtggg tgcttgaac ccgggatgac tgagggggac actggagtgg 1500
gtgcttgtgt ctgctgtctc agaggccttg gtcaggatga agttggctga cacagcttag 1560
cttggttttg cttattcaaa agagaaaata actacacatg gaaatgaaac tagctgaagc 1620
cttttcttgt tttagcaact gaaaattgta cttggtcact tttgtgcttg aggaggccca 1680
ttttctgcct ggcagggggc aggtctgtgc cctcccgtg actcctgctg tgcctgagg 1740
tgcatcttct gttgtacaca caagggccag gctccattct ccctcccttt ccaccagtgc 1800
cacagcctcg tctggaaaaa ggaccagggg tccsggagga acccatttgt gctctgcttg 1860
gacagcaggc ctggcactgg gaggtggggg tgagcccytc acagccttgc ccctccccc 1920
ggctggcaac ctgcctycca ttgccaaga gagagggcag ggaacaggct actgtccttc 1980
cctgtggaat tgccgagaaa tctagcacct tgcatgctgg atctgggctg cggggaggct 2040
ctttttctcc ctggcctcca gtgcccacca ggaggatctg cgcacggtgc acagcccacc 2100
agagcactac agccttttat tgagtggggg ggggcaagtg ctgggctgtg gtcgtgccct 2160
gacagcatct tccccaggca gcggtcttgt ggaggaggcc atactccct agttggccac 2220
tggggccacc acctgacca cactgtgcc cctcattgtt actacctgt gagataaaaa 2280
ctgattaaac ctttgtggct gtggttggct gaaaaaaaa aaaaaaaaa aaaaaaagg 2340
gggggn                                           2346
```

<210> 33

<211> 459

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (388)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (394)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (428)

<223> n equals a,t,g, or c

<400> 33

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tcgacccacg cgtccgagag acagtcacac cagctgcccc tagtggggct cttactgttt 60
tcttttattc caagccaact atgcgagatt tgtgaggtaa gtgaagaaaa ctacatccgc 120
ctaaaacctc tgttgaatac aatgatccag tcaaaactata acaggggaac cagcgctgtc 180
aatgttggtg tgtccctcaa acttggttga atccagatcc aaaccctgat gcaaaagatg 240
atccaacaaa tcaaatacaa tgtgaaaagc agattgtcag atgtaagctc gggagagytt 300
gccttgatta tactggcttt gggagtatgt cgtaacgctg aggaaaactt aatatatgat 360
taccacctga tcgacaagyt agraanaatnaa attnccargc agaaattgga aaatwtggga 420
ggcacacnat gggcactccc ctgacttact acttcccag 459

```

<210> 34

<211> 629

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (607)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (613)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (617)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (621)

<223> n equals a,t,g, or c

<400> 34

```

gttggacttt aatcttaccg atccagaaaa tgggcctgtt cttgatgatt ctctaccaa 60
ctcagtagat gaatatattc ctttgccaa agattgtgga aataaggaaa aatgtatctc 120
agacctcagc ctgcatgtcg ccaccactga aaaggacctg ctgattgtcc gatcccagaa 180
tgataagtgc aacgttagcc tcacagtcaa aaatacaaaag gacagtgcct ataacaccag 240
gacaatagtg cattattctc caaatctagt tttttcagga attgaggcta tccaaaaaga 300
cagtttgtgaa tctaatacata atatcacatg taaagttgga tatcccttcc tgagaagagg 360
agagatggta actttcaaaa tattgtttca gtttaacaca tcctatctca tgggaaaatg 420
tgaccattta tttaagtga caagtggaca gcgarggaac ctcctgaaac cctttytgat 480
aatgtagtaa acatttsytw tcccgggtaa aatwtggaag ttgggctaca gttttacagy 540
tctgcaagtg grwtaccaca ttccaatggc cggccatgga gacagtcccc ggaagtttat 600
taattcnacc ggnggancat nggaaagg 629

```

<210> 35

<211> 918

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (918)

<223> n equals a,t,g, or c

<400> 35

```
atggcagcgc cgtggctgcc accagcacca tcaacacacc ctttggagcg atggtgtatt 60
caccacggac aggcattcatc ctcaacaacg agctcctgga cttatgagag cgatgcccc 120
gggggttcgg caccaccccc tcacctgtga gtggagacag ggtgggtgga gctcccgaa 180
gtgctggccc ccagttccag gcgagcgttc cccatcctcc atggtgccct ccatcttgat 240
caacaaagcc caggggtcga agctagtgat tggcggggct ggcggggagc tcatcatctc 300
tgctgtggcc caggcatcat gagcaagctg tggcttggtc ttgacctgag agcggccatt 360
gcagccccca tcctgcatgt caacagcaag ggctgtgtgg agtacgagcc caacttcagc 420
caggaggtgc agaggggact ccaagaccgt ggccagaacc agaccagag gcccttcttc 480
ctgaacgtgg tccaggctgt gtcccaggag ggggcctgtg tgtacgccgt ctcggacctg 540
aggaagagtg gggaggccgc aggtactacta gacactgctc tgcccagagc tgaagtctgg 600
ccccaccatg agtcctgtgt ccaggccgga catggctggg ggaccaacta ctctggcagg 660
atctggaccc ctggcagggg agtccagctg agagtggaag aggtggcggg gaccagctgg 720
gcagatgaga gctgagcctc atccctaacc ccctttccca gagcccctgg tggctcctgaa 780
ccggccccctc tatccctccg caggcctctt gcctggggcc actctcccac cctctcgatc 840
tgtatatcct ccagtccaag attaaagagg cggactgtga aaaaaaaaaa aaaaaaaaaa 900
aaaaaaaaaa aaaaaaan                                     918
```

<210> 36

<211> 802

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (659)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (677)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (684)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (736)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (763)

<223> n equals a,t,g, or c

<400> 36

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tgcctccac agtcgggta gcagctcctc ctacacacagc tcactctgtca ggccggggcag 60
ctcctacagc tcttccatga gcacaggagg aggtggtgca ggctccctgg gtgcaggcgg 120
tgcctttggt gaagctgcag gagacagggg tccctatggc actgacatcg gccagggcgg 180
aggctatggg gcagcagcag aaggcggcat gtatgctggc aatggcggac tattgggagc 240
tgactttgct ggagatctgg attacaatga gctggctgtg aggtgtcag agagcatgca 300
gcgtcagggc ctactgcaag ggatggccta cactgtccag ggcccaccag gccagcctgg 360
gccacagggg ccacccggca tcagcaaggt cttctctgcc tacagcaacg tgactkcgga 420
cctcatggac ttcttccaaa cttatggagc cattcaagga cccctgggc aaaaaggaga 480
gatgggcact ccaggaccca aaggtgacag gggccctgct ggcccaccag gtcaccttg 540
gccacctggc ctttcgagga cacaaggag aaaaaggaga caaagggtga ccaagtctat 600
gctgggcgga gaaggagaag aagttattgg ctgtcaaccg ttgagctagc catgggcang 660
acagctcctg ggaccangtc ttcntaatgc tgtggcatta ggtccaagtc tccagaggtg 720
aaagtggatc tgtcangtct tactgagaca gcacagccaa ctnagtagca acatttgttt 780
tagtctggaa catatatact tt                                     802

```

<210> 37

<211> 2093

<212> DNA

<213> Homo sapiens

<400> 37

```

gtcctccagg aatccctggc cagcctgggc taaagggtct accaggaccc caaggacctc 60
aaggcttacc aggtccaact ggccctccag gagatcctgg acgcaatgga ctccctggct 120
ttgatggtgc aggagggcgc aaaggagacc caggtctgcc aggacagcca ggtaccctgt 180
gtttggatgg tccccctggt ccagatggat tgcaagggtcc cccagggtccc cctggaacct 240
cctctggtgc acatggattt cttattacac gccacagcca gacaacggat gcaccacaat 300
gccacagggg aacacttcag gtctatgaag gcttttctct cctgtatgta caaggaaata 360
aaagagccca cgggtcaagac ttggggacgg ctggcagctg ccttcgtcgc tttagtacca 420
tgcttttcat gttctgcaac atcaataatg tttgcaactt tgcttcaaga aatgactatt 480
cttactggct ctctacccca gagcccatgc caatgagcat gcaaccctta aaggggcaga 540
gcatccagcc attcattagt cgatgtgcag tatgtgaagc tccagctgtg gtgatcgcag 600
ttcacagtca gacgatccag attccccatt gtcctcaggg atgggattct ctgtggattg 660
gttattcctt catgatgcat acaagtgcag gggcagaagg ctcagggtcaa gccctagcct 720
cccctggttc ctgcttgga grgtttcgtt cagctccctt catcgaatgt catgggaggg 780
gtacctgtaa ctactatgcc aactcctaca gcttttggct ggcaactgta gatgtgtcag 840
acatgttcag taaacctcag tcagaaacgc tgaaagcagg agacttgagg acacgaatta 900
gccgatgtca agtgtgcatg aagaggacat aacattttga agaattcctt ttgtgtttta 960
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actactgctg ccgtcaatgg tgctactata tatgatcaag ataacatgct gactagtaac 1080
catgaagatt cagatgtacc tcagcaatgc gccagagcaa agtctctatt atttttctac 1140
taaagaaata aggaagtga tttacttttt gggccagaa tgactttctc caagaattat 1200
aagatgaaaa ttatatattt tgcccagtta ctaaaatggg acattaaaaa ttcaattaag 1260
agargagtca ctttagttaa aataaaagac tgcagtttgt gggaagaatt atttttcacg 1320
gtgctactaa tcctgctgta tcccgggttt tcaatataaa ggtgttaagc ttattttgct 1380
ttgtaagtaa agaattgtga tattgtgaac agccttttag ctcaaaatgt tgagtcaatt 1440
acatatgaca tagcatgaat cactctttac agaaaatgta ggaaacccta gaatacagac 1500
agcaatattt tatattcatg tttatcaaa gtagaggact tatattccta catcaagtta 1560

```

```

ctactgagag taaatatttatt ttgagtttta tcccgtaagt tctgttttga ttttttttaa 1620
aaaacaaacc ctttttagtca ctttaatcag aattttaa atgtcatgtta cataccaaat 1680
tataatatct aatggagcaa tttgtctttt gctatatctt ccaagattat ctcttaagac 1740
catatgcccc ctgtttta atgtttcttaca tcttggtttt actcatttct gactggacaa 1800
agttctttcca aacaattctg agaaacaaaa acacacacgc agaattaaca attcttttcc 1860
ctgtgcttct tatgtaagaa tcctcctgtg gcctctgctt gtacagaact gggaaacaac 1920
acttggttag tctcttttaa gttacaaaaa gccaatgat gtttcttatt ctttttaaat 1980
tttaaatatt ttgttataaa tactcacagg ataccttatt tccctagcta tcctctcctg 2040
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```

```

<210> 38
<211> 434
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (325)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (403)
<223> n equals a,t,g, or c

```

```

<400> 38
gggcttatag ataaatactt gctttttttc tataacctgt agacttattt ctttgatta 60
taatgctatt gacactttga taactgtttc tctaaaacct tacaagaaaa actaagcttc 120
tctaaacttg tattcattat gggagaatgc cattcttatg tctggttata tctgcattag 180
gttattgatg atgctagtaa caatgaactt tatgttactg cagctcacia atgctttttt 240
acatctgcaa gaaattaact agtcatcaaa tgcttagtag cacagaaatt ctcaagtggg 300
tgcggggaaa tattgatcyg caggnrtaaa ttcttcctta aaaataaggg targcaaatg 360
gcmtwtttta aaaaatgggrg gatwtttggg atggtaatgg tnggggggta ctaaaagggt 420
ttagcccca tagg 434

```

```

<210> 39
<211> 1078
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (36)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (877)
<223> n equals a,t,g, or c

```

```

<400> 39

```

```

aggaagtaat tgagagtgtt ggcaacaagg ctgaantata gagaagtgtt aggattaact 60
ttttcgccca aagcagcttc acccacgttt tattcccatc gagggagkga gaatgggtgc 120
cgctgagtgg gcgggggagt ggtccctgaa agaggtggag tgctacagcc cctccccgtt 180
ggctctcgct gtttgtccgt tggtggttta tactaatttg acaacagccg cctgttgagt 240
ctcctccaga tcgcagctga aggatctgtt gagcgcttca ggaaaggcgg tgagatccsg 300
taccgcagca gagcactctc agctctgggt cttgcaggcg cagggctccc ccatgccagc 360
agaaagattt cctctggtga agaggaccgt cgaatctgtc ctcctcaaga cacctcttgt 420
acagaattta ttcgaatgcc acggccaagg tcttccttga aaaatgttaa ccgatgtgtg 480
ctttttgtct tttgtcatcc tttcttttagg acaggcgaca ctaacagggtg aagatctctg 540
gagaccatga ctaagaaaaag aattgctgtg attgggggag gagtgaaggc gctctcttcc 600
atcaagtgtt gcgtagaaga aggcttgagg acctgtctgc tttgaaagga ctgatgacat 660
cggaagggtt ctggagggtt caggaaaatc ctgaagaagg aagggccagt atttacaagt 720
cagtgatcat caatacttct aaagagatga tgtgtctcak tgactatcca atcccagatc 780
attatcccaa cttcatgcat aatgccccag gtccctggrg tatttcagga tgatgcca 840
agaatttgac cttctaaagt atattcgatt taagacnact gtgtgcagtg tgaagaagca 900
gcctgatttt gccacttcag gccaatggga agtggtcact gaatctgaag ggaaaaagga 960
gatgaatgtc tttgatggag tcatggtttg cactggccat cacaccaatg ctcattctac 1020
tctggaaagc ttccttggtg agcagcttac caggaaggaa gacccttgac tccacgcc 1078

```

<210> 40

<211> 1976

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1058)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1919)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1934)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1957)

<223> n equals a,t,g, or c

<400> 40

```

ggcgtaagac cggagggacg cggcggttagc ggcggccgtt gcgattgatt gcgctggttg 60
cctgcggcgt ccacttcctt ggccgccctt gctacactgg ctgattgttg tgcagccggc 120
gccatgtctg tgagcgagat cttcgtggag ctgcagggct ttttggtgc cgagcaggac 180
atccgagagg aaatcagaaa agttgtacag agtttagaac aaacagctcg agagatttta 240
actctactgc aaggggtcca tcagggtgct gggtttcagg acattccaaa gaggtgtttg 300
aaagctcgag aacatttttg tacagtaaaa acacatctaa catctttgaa gaccaaattt 360

```

```

cctgctgaac agtattacag atttcatgag cactggaggt ttgtgttgca gcgcttggtc 420
ttcttggcag catttggtgt gtatttgga acagaaacac tagtgactcg agaagcagtt 480
acagaaattc ttggcattga gccagatcgg gagaaaggat ttcatctgga tgtagaagat 540
tatctctcag gagttcta atcttgccagt gaactgtcga ggctgtctgt caacagcgtg 600
actgctggag actactccc acccctccac atctccacct tcatcaatga gctggattcc 660
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taaaagatta aactgcgaag tcaagctcaa cagattattt tggaaagttt ttgtattaag 1440
ggatttagta acatcatttt gttttccacc aggcaggagg tagggcttag tgttttaaaa 1500
cacctctgct ttctgatgtt gccttaatat tctgctattg cagcaattaa aaattgtctt 1560
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aatagtgaat tataaataag tcaggccggg cgtgggtggcy cacacygtga atcccagcac 1800
actgggaggc cgaggcaggg ggactgcttg agctcaggag ttcgagacca gcctgggcaa 1860
caaagtgagg actccatctc tatatgaaaa acaaaaacca cggaaaggca cacacaaant 1920
aaatccagtg gggntttggt aaatgtgttt tagagtnagg aaatttccag gttgtt 1976

```

<210> 41

<211> 2310

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (681)

<223> n equals a,t,g, or c

<400> 41

```

cggacgcgtg ggcggacgcg tgggttgga tttgggcttc agccccataa gattccagac 60
acagaaactc tctgctatgt tatgccatca tccagtgcga gatgtgctca gtttcctcga 120
gcccaagaca aagttcatta ctacataaaa ctgaaggact taagagatca gttgaaaggc 180
attgaacgaa atatggacgt tcaagaggty caatatacat ttgacctaca gcttgcccar 240
gaggatgcaa agaagatggc tgtaaggaa gaaaaatatg atccaggtta tgaggcagca 300
tatggtggtg cttacggaga aaatccatgc agcagtgaac cttgtggctt ctcttcaaat 360
gggctaattg agagcgtgga gttaagagga gaatcagctt tcagtggcat tcctaattgg 420
cagtggatga cccagtcatt tacagaccaa attccttctt ttagtaatca ctgtggaaca 480
caagaacagg aagaagaaa ccatgcttaa gaatgggtgt tctcagctct gcttaaatgc 540
tgcagtttta atgcagttgt caacaagtag aacctcagtt tgctaactga agtgttttat 600
tagtatttta ctctagtggg gtaattgtaa tgtagaacag ttgtgtggta gtgtgaaccg 660
tatgaaccta agtagtttgg naagaaaaag tagggttttt gtatactagc ttttgtattt 720

```

```

gaattaatta tcattccagc tttttatata ctatatattca tttatgaagg aaattgattt 780
tcttttgggg agtcactttt aatctgtaat tttaaaatac aagtctgaat atttatagtt 840
gattcttaac tgtgcataaa cctagatata ccattatccc ttttatacct aagaagggca 900
tgctaataat taccactgtc aaagaggcaa aggtgttgat ttttgatat gaagttaagc 960
ctcagtggag tctcatttgt tagtttttag tggtaactaa gggtaaacctc agggttccct 1020
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tgctgtttgt tactataaat taaatgaacc tcatggaaa gttgaggtgt atacctttgt 1560
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ctwattgtga atcttaacat gcttttttagc tgtggctatg atggatttta ttttttccta 1860
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atccactaga gatgggtttg aggattttcc aagcgtgtaa taatgatgtt tttcctaaca 2160
tgacagatga gtagtaaatg ttgatatac ctatacatga cagtgtgaga ctttttcatt 2220
aaataatatt gaaagatttt aaaattcatt tgaaagtctg atggctttta caataaaaga 2280
tattaagaat tgtaaaaaa aaaaaaaaaa 2310

```

<210> 42

<211> 406

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (8)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (45)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (46)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (350)

<223> n equals a,t,g, or c

<400> 42

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gggcacgnag cacgtcaagg acacctgagt tctccaacag acggnnaacg ccaagggcat 60
tcacagttct gggaggtgat ctctgatgaa catgcyatcg actccgctgg cacctaccac 120
ggggacagcc acctgcagct ggagcgcacg aacgtgtacy acmacgaggc cagcgggtggc 180
aggtacgtgc cccgcgctgt gctcgtggat ctggagccgg gcaccatgga ctctgtgcgc 240
tcggggcyct tcgggcaggt cytcaggcca gacaaettca tcttcggtga gctgyggggcg 300
arsactgggg tgccggctcct tagccagggc agctcaaaat ccaggaacgn tccaaggtaa 360
tcctgtggga actgtggcgc agggccctga acaacctcct atccgt 406
```

<210> 43

<211> 627

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (597)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (614)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (617)

<223> n equals a,t,g, or c

<400> 43

```
aaacaataga aagcaacagt tcagagcact gcatcaagtg tactgtgctg gaaaggtccg 60
ccataggaaa tatggtcctc catactcctc agacaacagc cttccgaaag caaacctgtc 120
cctacctgca gatgattaac catctatgaa ccggctgggt aagcaacaag tgccatcttt 180
catggagctg agccttaaag atcctccagt cctaaagctg acgggaagaa ggtaggtggg 240
agcagcgtg aggttttttg aacgtcctca agtgctgtga caccgataaa ctcatctttg 300
gaaaagggaac ccgtgtgact gtggracca gaagtcagcc tcataccaaa ccatccgttt 360
ttgtcatgaa aaatggraca aatgtcgctt gtctggtgaa ggattctacc ccaaggrrtat 420
aagaataaat ctctgtgcat ccaagaagrt aacagagttt gatcckgcwa ttgtcatctc 480
ycccagtggg aagtacaatg ctgtcaactt gggtaaata gaagattcaa attcagtgc 540
atgttcagtt caacacgaca ataaaactgt gcactccact gactttggaa gtgaagncag 600
attctacaga tccngtnaaa ccaaggg 627
```

<210> 44

<211> 745

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (411)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (731)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (743)

<223> n equals a,t,g, or c

<400> 44

```
gactcgtcgc accgaagccg ccgccaccac cgcgcctccg cctcggccgc cgccgcagct 60
gctcctggtc cccgtccctt tgccgccctc gtcakgccag ctctcctgcg ccgccgcctc 120
ccgccgcgcc ccgccatgcc gctctactcc gttactgtaa aatggggaaa ggagaaattt 180
gaaggtgtag aattgaatac agatgaacct ccaatggtat tcaaggctca gctgtttgcg 240
ttgactggag tccagcctgc cagacagaaa gttatggtga aaggaggaaac gctaaaggat 300
gatgattggg gaaacatcaa aataaaaaat ggaatgactc tactaatgat ggggtcagca 360
gatgctcttc cagaagaacc ctccagccaaa actgtcttcg tagaagacat ngacagaaga 420
acagttagca tctgctatgg agttaccatg tggattgaca aaccttggtgta acacttggtg 480
catgaatgcc acagttcagt gtattcgttc tgtgcctgaa ctcaaagatg cccttaaaag 540
gtatgcaggt gccttgagag cttcagggga aatggcttca gcgcagtata ttactgcagc 600
ccttagagat ttgtttgatt ccatggataa aacttcttcc agtattccac ctattattct 660
actgcagttt tgcacakggc tttccacagt ttgccrgaa aggtggaaca aggacagtat 720
cttcaacagg ntgctaattg aangt 745
```

<210> 45

<211> 467

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (25)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (461)

<223> n equals a,t,g, or c

<400> 45

```
agtgttcaag gagcaagagc ttcanctga agacaaggga gcagtccttg aagacgcttc 60
tactgagagg tctgccatgg cctctcttgg cctccaactt gtgggctaca tcctaggcct 120
tctggggctt ttgggcacac tggttgccat gctgctcccc agctggaaaa caagttctta 180
tgtcggtgcc agcattgtga cagcagttgg cttctccaag ggcctctgga tggaatgtgc 240
cacacacagc acaggcatca cccagtgtga catctayagc acccttcttg gcctgcccgc 300
tgacatccag gstgcccagg ccatgatggt gacatccagt gcaatctcct ycctggcctg 360
cattatctct gtggtgggca tgagatgcac agtcttctgc caggaatccc gagccaaaga 420
```

cagagtggcg gtagcaggtg gagtcttttt catccttgga ngcctcc

467

<210> 46

<211> 722

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<400> 46

```

nnccctctag tectgggtcg cggccctgcc catgggggtct caggccaggt ctctgctggc 60
agaggcggta gtaaagtccc tgtaccccggt ctcacagggc acaagctccc tagcctcttt 120
ggatccattg cccctgagct cccagagtca cccctccacc tccgcagcca gtgaagtgtg 180
ttgtgcctgc tgaagtgatc acccccgcgc cccagccctg catcaggcca caggtcttgg 240
ctttctcctt atcaccattt gctgttatca cggcacacag cagggaatcc caggccccc 300
cgccaagtgg ttaccaagt caccactcct gacccaaaaa tcaggcatgg cattaaaacg 360
ttgcaaattc ctttactgtt atccccccca ccaccaggac catgtagggt gcagtcttta 420
mtccctaacc cgtttcccga aaaagggtgct acctcctttc cagacagatg agagagggga 480
ggacttcagg ctggatccac cactgggctc tccctccccc agcctggagc acgggagggg 540
aggtgacggc tggtgactga tggatgggta gtgggctgag aagaggggac taggaagggc 600
tattccaggc tcagccctgc tcctgcagct ttgccgctga gtgtaggaaa aacaggcatg 660
acagaccagg gtgagggttg tgccagctgg cyacggccat gcgtgggggtg gcccaataaa 720
ca

```

722

<210> 47

<211> 1002

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (685)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (898)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (905)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (924)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (957)

<223> n equals a,t,g, or c

<400> 47

```

gtatgaggaa atccccaagc ggcgccggca gcgrggctca gaaacaggca gcgagaccca 60
tgagagtgat ctggctcctt cagacaagga ggctcccaca cccaaggagg gaacactcac 120
ccagggtccct ctgctcccc caccaccagg agccccacct tcaccagccc cagcccgtt 180
cactgcccgg ggtgggcgag tcttactcc cagaggggtgc catctcgccg gggccgagga 240
ggagggaggc cccctcctca agtttgccca ggctggagcc ctccagccaa gtctctggct 300
cccaagaaac ctcccacagg ccctttgccca ccaagtaagg agcctttgaa agagaagttg 360
atcccagggc ctctgtcccc tgtggcgcgc ggaggcagca atggaggtag caatgtgggc 420
atggaagatg gggagcgacc ccgaaggagg cgacatggga gggctcagca gcaggataaa 480
ccgcctcgtt tccggaggct gaagcaggaa cgggagaatg ccgcaagggg tctgagggca 540
agccctccct aacccttcca gcctccgctc ctggacctga ggaggccctc acaacagtca 600
cagtggcccc agcacctcgc cgggcagctg ccaagtctcc tgatctgtca aaccagaact 660
cagaccaagc caatgaggaa tgggnagact gcatcagaga gcagtgactt caccagttag 720
cgccgagggg acaaagaggc acccccacca gtactgctga cacccaaggc tgtgggaact 780
cctgggggar gtggaggtgg agccttacca ggtatttcag ccatgtyccg cggagatctg 840
agccagagag ccaagatttg agtaaacgga gcttctcaat tcagcgggcc agcattgnaa 900
ggcanattcg gcgccttggc ccanggggca aggttggcac attggcacca gcattgnaga 960
agccgttggg gttcttgaag aaggaccggg ccagacgagg ga 1002

```

<210> 48

<211> 2119

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2093)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2103)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2114)

<223> n equals a,t,g, or c

<400> 48

```

cagagaatta atttttttgt gtgctagggg agggagagtg aggagggagt gttatttcct 60
tggaaccta gggaggagag gttcctttgt tgggaaactt ttgttgatag ctgctgcctt 120
tgctctgatc gttttcttct ccttttctct ggtggcctgt tgtggtgcaa gagctgatgg 180
catttgatct tgccccattc aggttgggga gtgaagtgtg aggacccttt tccccgctt 240
gctgtgaaa gacagattca ttgactacag tacactgttg ttcagaaaag aaggctgcaa 300
atgacttctg agactttatg tcttttcttc cagaccaaga ccgtagaagg agtcacatct 360
agccggctta gccaaagtac aggtgtatat agttcagggc acttgattta gatttggagg 420
ggctggggtg ggcagagagc aagaggcgag taaagagaat ggtggtttca gagatctctc 480
ttcccaaatg tgtaaatatt ctataaccaga taagttaaaa taagaaattt aattgctgct 540
taatttttga ttatgtactt tatctgtata gcaggctttg tcgtcagaag tttttatctc 600
gatttaaat gctgctcttt agcascaaac aggagcaaaa tgtaaaattt ttgaacttac 660
tgtgtctaata catcatttgt tagtctgtag ttaatgtcaa cagttaattt atgaaccac 720
gatcgttcca cactgcacca aagtcagtca taagagaaat cgaatattct ggagcactga 780
ttgcagcagg gtggctcctt tgtgtgcagc aggtgtagta gtcttcattt tcatggtacg 840
ttttaatatt aattaccta gctgccatgc attttttttt ttacagttct caaggtagag 900
cacagaacaa tttctcattt catatttgga gtatgaaagt agattctatt ttgtaatgct 960
gataatacct aaagatgcat tgaatgcttg gaagaatgct ttttgatgtt gattttgacc 1020
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gcattgcctt aaatcttctc cagttagaac attgatttat ttacatgatg ttcagatttt 1140
ccagtgaaaa atacccttct gaacaaaaca tgtacttact ctccgaaagg catctatctg 1200
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cttgtaaatg tatgtttgag gagtttgaac gtcagtgtgc acttaccac aaagttattc 1440
aagttgtaaa aggttatata ataatttaac aactaccctt tttattctgt cgggttactg 1500
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ctaactctg tacacatctc caagcaagga agaaaaaaca aactctgctc agacgcctat 1740
gaaacacctg aatgaacttt gatgaagtac agtctgagtt accatcatgc acaagtagaa 1800
ctgctcttg acttgtttct ctggtgtttg tggaaacctac gcgtttgaat ggcttgaacg 1860
ttgcatcttt taaagttatt ttttaagttt tcttggcatt tatcctagtt gtccgtgttt 1920
ggcaatgtgc tgtaaaagta atagactttt aactcttatg tattttttgt tttctctgga 1980
gtacttgga agatgttata gtggtttctt ttaggaaaaa ctgtcattaa aaaagttata 2040
gccttgcaaa taacaaaaaa aaaaaaaaaa aaaaaccgg gggggggccc ggnaccat 2100
tcncccaaaa gggnggcgg 2119

```

<210> 49

<211> 494

<212> DNA

<213> Homo sapiens

<400> 49

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aagtcaggct tgagaaagta gaaggctgag tccttcaagg tagaagagcc tgagctccag 60
acataaaagg gaaactggag acttgtttct ttggcctatt cattctgttt tttttccct 120
gatcaaaagaa accaaagaca gaagatgtag gatgcaggag caatagttag cagtcacccc 180
ataatagact ggattcttct gtttctataa aggaacctca gaagctctta cctcaccttc 240
aagccttttc cttaccctga gagcctcctt taattgtctc ttctttttca ggccaagagg 300
cccagacaga gttgccccag gccggatca gctgcccaga aggcaccaat gcctwtcgtt 360
ccctaywgyta ytactttaat ggaagaccgt ggagacctgg gttgatgcag atgtgagtga 420
ggagagcatk tggggaggga gattcatgaa gggaggggag ttgccatttt ccatgtgttc 480

```

aattggttgc aatg

494

<210> 50

<211> 1342

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (99)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (381)

<223> n equals a,t,g, or c

<400> 50

```
caagttgttc tttgtttcca gcttgcattg attgctacaa catcactaat ttggactttc 60
acattttaat ggttctgtgc taatcaaaac tttcgttgnt attattcgtt atggtagaat 120
cattttttaat tcacgtgctt tgtgttcagt tttgtggtct gagagatgta ccaattgtca 180
aattaccgtg taccacctaa tgtttatagg agaaagcaaa atacatcagc ttggtagtta 240
acacatcaaa tatttcttgc tgcttctagg agaacttttt tgggtgtgtg ttggaatggct 300
gagcaaatat taaaattgtt aatatgcagc catatatgga aggttcctgt ggggttgttt 360
tttcgtgttt tttttttttt ngtggkggga ttatgtgcct cccattcact agaaaatgag 420
aaaattgtct gggttccaaa atattgacat tgaatggatc aatacacaca cacagacata 480
tatatatata tgcacacata tataggcagt tgcattgctag catgggtatt tttataacaa 540
tataactgag ttatatggga attataaata ttttcygtca cttaaatttg ttctttgttt 600
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agcgagctgc attaccagct taaaacactt cttagggatt aaatatagat gtaatttttc 720
aaaatcgttt ttaattttaa ctgtgtttta gtgtaaaatt gttaaccttg taagatggat 780
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aaaaataatt ggaagcacaa gtgcatggcc tgactgaatg ctgttaatat ttctaaaagt 900
ttctacattc agatttatatg cctgattcat agtaaaatac ctctaataaa cactgtttta 960
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atttacacta ttatttccta tagctacatg ttctttgtac cttttgtagt tttatttgta 1080
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taaaccacta gttgatgtat ggtatcttta gatatttgcc tgtctgtttg ctcaaaattg 1260
cttctaaaac aataaagatt cttttatttc ttaaggcaaa aaaaaaaaaa aaaaaaaaaa 1320
aaaaaaaaaa aaaagggaga gg                                     1342
```

<210> 51

<211> 1527

<212> DNA

<213> Homo sapiens

<400> 51

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aaagacgctg actgcgccgc ggagaaagcc agtgggaacc cagacccata ggagaccgc 60
gtccccgctc ggcctggcca ggccccgcgt atggagttcc tctgggcccc tctcttgggt 120
ctgtgctgca gtctggccgc tgctgatcgc cacaccgtct tctggaacag ttcaaattcc 180
```

```

aagttccgga atgaggacta caccatacat gtgcagctga atgactacgt ggacatcatc 240
tgtccgcact atgaagatca ctctgtggca gacgctgcc aaggagcagta catactgtac 300
ctgggtggagc atgaggagta ccagctgtgc cagccccagt ccaaggacca agtccgctgg 360
cagtgaacc ggcccagtg caagcatggc ccggagaagc tgtctgagaa gttccagcgc 420
ttcacacctt tcacctggg caaggagttc aaagaaggac acagctacta ctacatctcc 480
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gccacgtgt atagtatctg tatataagtt gctgtgtgtc tgtcctgatt tctacaactg 1440
gagttttttt atacaatgtt ctttgtctca aaataaagca atgtgttttt tcggaaaaaa 1500
aaaaaaaaa aaaaaaaaaa aaaaaaa 1527

```

<210> 52

<211> 630

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (556)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (628)

<223> n equals a,t,g, or c

<400> 52

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ggtttttttc tcacctgac tgcaagatga aactccttgt gctagctgtg ctgctcacag 60
tgcccgccgc cgacagcggc atcagccctc gggccgtgtg gcagttccgc aaaatgatca 120
agtgcgtgat cccggggagt gacccttctt tggaatacaa caactacggc tgctactgtg 180
gcttgggggg ctcaggcacc cccgtggatg aactggacaa gtgctgccag acacatgaca 240
actgctatga ccaggccaag aagctggaca gctgtaaatt tctgctggac aaccctgaca 300
cccacaccta ttcatactcg tgctctggct cggcaatcac ctgtagcagc aaaaaaagg 360
agtgtgaggc cttcatttgc aactgcgacc gcaacgctgc catctgcttt tcaaaagctc 420
catataacaa ggcacacaag aacctggaca ccaagaagta ttgtcagakt tgaatatcac 480
ctctcaaaag catcacctct atctgcctca tctcacactg tactctcaa taaagcacct 540
tgttgaaaga cmaaaanaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaa 600
aaaaaaaaa aaaagggggg ggggggggcc 630

```

<210> 53
 <211> 575
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (575)
 <223> n equals a,t,g, or c

<400> 53
 cggactcctg ccagggttgg gtgcgccgct gaacggatgg ctgagggagc cccgcggatc 60
 gtttaggaaa gccggccagc tgatcgctcg gtgttgccac ccattcatgt caagatgact 120
 aagtttggat ttttgcgatt gtcctatgag aagcaggaca cacttttgaa gcttctcatt 180
 ctgtcaatgg ctgctgtatt atccttctcc actcgtctgt ttgctgtcct gagatttgaa 240
 agtgttatcc atgagtttga tccgtacttt aattatcgga ctaccagggt cctggctgag 300
 gagggggttt ataaattcca taactggttt gatgaccgag cctggtaccc tttgggacga 360
 atcattggag gaacaattta cccagggtta atgatcacct ctgctgcaat ctaccatgta 420
 ctccattttt tccacatcac catcgacatt cggaatgtct gtgtgttcct ggcccctctc 480
 ttctcctcct tcamcamcat cgtcacgtac caccttacca aagagctcaa ggatgcaggg 540
 gctgggcttc ttgctgctgc catgattgct gtagn 575

<210> 54
 <211> 2934
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (2767)
 <223> n equals a,t,g, or c

<400> 54
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 gggggctgaa gagcgccgcg ccctctcgtc ccactttcca ggtgtgtgat cctgtaaaaat 120
 taaatcttcc aagatgatct ggtatatatt aattatagga attctgcttc cccagtcttt 180
 ggctcatcca ggctttttta cttcaattgg tcagatgact gatttgatcc atactgagaa 240
 agatctggtg acttctctga aagattatat taaggcagaa gaggacaagt tagaacaagt 300
 aaaaaaatgg gcagagaagt tagatcggct aactagtaca gcgacaaaag atccagaagg 360
 atttgttggg catccagtaa atgcattcaa ataatgaaa cgtctgaata ctgagtggag 420
 tgagttggag aatctggtcc ttaaggatat gtcagatggc tttatctcta acctaaccat 480
 tcagagacag tactttccta atgatgaaga tcaggttggg gcagccaaaag ctctgttacg 540
 tctccaggat acctacaatt tggatacaga taccatctca aagggtaatc ttccaggagt 600
 gaaacacaaa tcttttctaa cggttgagga ctgctttgag ttgggcaaaag tggcctatac 660
 agaagcagat tattaccata cggaactgtg gatggaacaa gccctaaggc aactggatga 720
 aggcgagatt tctaccatag ataaagtctc tgttctagat tatttgagct atgsgtatg 780
 cagcagggag acctggataa ggcacttttg ctcacaaaga agcttcttga actagatcct 840
 gaacatcaga gagctaattg taacttaaaa tattttgagt atataatggc taaagaaaaa 900
 gatgtcaata agtctgcttc agatgaccaa tctgatcaga aaactacacc aaagaaaaaa 960
 ggggttgctg tggattacct gccagagaga cagaagtacg aaatgctgtg ccgtggggag 1020

```

ggatatcaaaa tgaccctctg gagacagaaa aaactctttt gccgctacca tgatggaaac 1080
cgtaatccta aatttattct ggctccagct aaacaggagg atgaatggga caagcctcgt 1140
attattcgtc tccatgatat tatttctgat gcagaaattg aaatcgtcaa agacctagca 1200
aaaccaaggc tgaggcgagc caccatttca aaccaataa caggagactt ggagacggta 1260
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atgagtgatg tctctgcagg aggagccact gtttttcctg aagttggagc tagtgtttgg 1560
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gtcttaactt tcaggagtgt acaattgact aacctccat gattgattca gtcatgaacc 1860
tcatcccatg tttcatctgt ggacaattgc ttactttgtg ggttctttta aaagtaacac 1920
gaaatcatca tattgcataa aaccttaaaag ttctgttggg atcacagaag acaaggcaga 1980
gtttaaagtg aggaatttta tatttaaaaga actttttggg tggataaaaa cataatttga 2040
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tgtgatagga acaaatgcc ttacagatgt gcctaggtgt tctgtttacc tagtgtctta 2160
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aacaatgacc tatttatgat cttaaactct ttttaaaaaa atgtttgttt tctgtgtggt 2760
gttttngta tttaaatccg aatgtatgat gtggcagtaa caggttaact tatgtaattt 2820
ctttagtaca tagggcttag gtttatactc ttggtttcca ctcacactaa tgcacatgg 2880
ttaagaaaaa cttaggctct ctgaagtttc agatatttca tgaatcaaga tgtg 2934

```

<210> 55

<211> 575

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (6)

<223> n equals a,t,g, or c

<400> 55

```

ggtaangcta tttggtttta ckascargct ctggaatatt tagcagtcac tttcactggc 60
acaagagcct tttgtatgtt attcaattta aacttttaaa ccaaaaattt tatgggtccag 120
tgtctttggc aaaaagatgc tggagggaat gtaacatata attaatatgt ggttatatat 180
atatataaaa agacacaaat tgccatgtta tggttctgcc ttgaaacagc acaatgaagt 240
gtatcagtat attctgtgat tatgaaactt atatgttgtg ttgttttgtg tcttctgttg 300
cctgtccttt gggccagatg tgggccagtt aaatgcagtt atcatctcat taaatacaga 360
tgcagataaa atatcttttag tgctgcaaca ttttacctaa ctttttgtat gttttcatga 420

```

```

ctgtgtgttta ttttccaaag ctgttcctac ctcaccatga ggctttatgg attgttatgt 480
attataaatg ttctatatga gacagactac tgtgtttctt ctcatttatt aaaagttaag 540
tagaaaaata aactaatttt aatatctaaa aaaaaa 575

```

```

<210> 56
<211> 1140
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (563)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (1115)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (1119)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (1135)
<223> n equals a,t,g, or c

```

```

<400> 56
gattctgcgt gcgcaaattt tatttttctt cccgtacttt atctacagct gcattctggg 60
actgatatcc tgttccggtg ttctgcggg taaactatga gctgaagatg ttgatcatga 120
tggtggcctt ggtgggctac aacaccatcc tactccacac ccacgcccac gtcctgggga 180
ctacagccag gtcttatttg agagaccagg catttggaag gacctgaaga ccatgggctc 240
tgtgtctctc tctatattct tcatcacact gcttggtctg ggtagacaga atgaatatta 300
ctgtaggtta gacttcttat ggaagaacaa attcaaaaaa gagcgggagg agatagagac 360
catggagaac ctgaaccgcg tgctgctgga gaacgtgctt cccgcgcacg tggctgagca 420
cttcctggcc aggagcctga agaagtagga gctataccac cagtcctatg actgcgtctg 480
cgtcatgttt gcctccattc cggatttcaa agaattttat acagaatccg acgtgaacaa 540
ggagggcctg gaatgccttc ggntcctgaa cgagatcatc gctgactttg atgatcttct 600
ttccaagcca aaattcagtg gagttagaaa gattaagacc attggcagca catacatggc 660
agcaacaggt ctgagcgtg tgcccagcca ggagcactcc caggagcccg agcggcagta 720
catgcacatt ggcaccatgg tggagtttgc ttttgccctg gtagggaagc tggatgccat 780
caacaagcac tccttcaacg acttcaaat gcgagtggtg attaaccatg gacctgtgat 840
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ggccagtagg atggacagca ccggagtcct ggacaaaata caggttaccg aggagacgag 960
cctcgtcctg cagaccctcg gatacacgtg cacctgtcga ggaataatcc aacgtgaaag 1020
ggaaaggggg acctgaaaga cgtactttgt taaacacaga aatgttcaag gttccctttt 1080
cccagagcaa cgtgggcatt cctgaaagag ttcancctnc atttttgggc caagnaagac 1140

```

```

<210> 57

```

<211> 255
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (251)
<223> n equals a,t,g, or c

<400> 57
agcggsttg tgggtgtgag tgtcctgttg ggggctgtct ttggcaagga ggactttgtg 60
gggcatcagg tgctccgaat ctctgtagcc gatgaggccc aggtacagaa ggtgaaggag 120
ctggaggacc tggagcacct gcagctggac ttctggcggg gscctgcccc ccctggctcc 180
cccattcgacg tccgagtgcc cttycccagc atccaggcgg tcaagatctt tctggagttc 240
cacggcatca nttat 255

<210> 58
<211> 1254
<212> DNA
<213> Homo sapiens

<400> 58
ggtcacagagg gcagcatgcg ggggttgctg gtggtgagtg tcctgttggg ggctgtcttt 60
ggcaaggagg actttgtggg gcatcagggtg ctccgaatct ctgtagccga tgaggcccg 120
gtacagaagg tgaaggagct ggaggacctg gagcacctgc agctggactt ctggcggggs 180
cctgccccacc ctggctcccc catcgacgtc cgagtgcctt tccccagcat ccaggcggtc 240
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gctgtgacag ccctggcctc tctctacggg accaagtcca actatggcag catcatcaag 1080
gcaatttatc aagccagtgg aagcactatt gactggacct acagccaggg catcaagtac 1140
tccttcacct tcgagctccg ggacactggg cgctatggct tcctgctgcc agcctcccar 1200
atcatcccca cagccaatta ggggtgattca aggtgtctaa ttctagatcg cgaa 1254

<210> 59
<211> 1190
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature

<222> (1122)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1172)

<223> n equals a,t,g, or c

<400> 59

```
agggccgccg tccagagccg ccatcttggt ggagcaaac caacgcctgg ctcggagcag 60
cagcctctga ggtgtccctg gccagtgtcc ttccacctgt ccacaagcat ggggaacatc 120
ttcgccaacc tcttcaaggg cttttttggc aaaaaagaaa tgcgcctcct catggtgggc 180
ctggatgctg cagggaagac cagcatcctc tacaagctta agctgggtga gatcgtgacc 240
accattccca ccataggctt caacgtggaa accgtggagt acaagaacat cagcttcact 300
gtgtgggacg tgggtggcca ggacaagatc cggcccctgt ggcgccacta cttccagaac 360
acacaaggcc tgatcttcgt ggtggacagc aatgacagag agcgtgtgaa cgaggcccgt 420
gaggagctca tgaggatgct ggccgaggac gagctccggg atgctgtcct cctggtgttc 480
gccacaagc aggacctccc caacgccatg aatgcggccg agatcacaga caagctgggg 540
ctgcactcac tacgccacag gaactggtac attcaggcca cctgcgccac cagcggcgac 600
gggctctatg aaggactgga ctggctgtcc aatcagctcc ggaaccagaa gtgaacgcga 660
ccccctccc tctcactcct cttgccctct gctttactct catgtggcaa acgtgcggct 720
cgtggtgtga gtgccagaag ctgcctccgt ggtttggtca ccgtgtgcat cgcaccgtgc 780
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aagaaaaatc aactcactgt tcagtgtgta gaggggatgt aggcccatgg gcacctggcc 960
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ccaatcgga acattgaaca cacagaaggg gacccgctag cnagatttgc agtacggcct 1140
ggtgcctgc cagccagtgt tcctcggaaa tnagtgtgtg ggcagacttg 1190
```

<210> 60

<211> 580

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (530)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (575)

<223> n equals a,t,g, or c

<400> 60

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attcggcaca ggcgcggacc ggaagtctaa gtggaatccc ggttggttg gggcgaggc 60
ttccaaactt gtactctggc ctctgcgtct cggctcgtcg gttgggtacc cgaaccagc 120
tactgtgct tgagagaag atggatggg actcctcgcc gtcgtgctgc gccggcctt 180
ccctgggcgg acgtacacct ttgcgaacgt cagtggagac ccaggggccc tccttggaat 240
agctcttatt tctcaagcgc tgcagcgtga agctcgtct gcggttcga gaggcctgcg 300
```

```
atctgaagac tgaaaactgg gaagagacgc tctaccctgt gctcctcgcc ggcttcgata 360
ggagccgcag tgcctgggat tttctcaaac tttgtcccaa acttcagctg tgggagtggg 420
ggaacaaaca ggcctctccc agaattgtga aagagatcgc cctggtggat gaaacaaaaa 480
caaatgcact tgacttcmac gccttgcctg gcgttgtcac gcgggggttn aatgtatgtg 540
gccacatttt aaattccaaa gtattttctt ctaangggct 580
```

<210> 61
<211> 453
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (383)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (403)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (418)
<223> n equals a,t,g, or c

```
<400> 61
ttggctcaca ttcatgtctt gtttttgta ctggtttgaa gactaaaagg cacgggttca 60
aataagattg gtctctttgg ttggagacta tttctgggtt cattcagttg ttcaagaaac 120
attagttaag cacctactgt tgctagacac tatgctagat actgaggata atgaaggtaa 180
gattgatata gtccctgccc ttatggagct tatagtctca tgtggtctta gtgaacaaag 240
tctcaatttg cttttatact agaaataata aagaaagctg ccttgctgta ttcgatcagt 300
taaaatcagc aatttgtgct tttgtatcag taaaacattt agttctcacc ttttgaatat 360
gccaaccacg gaagggatta canccccccc attttgggcg ganaagggtt ccgttcgnga 420
gacattttcc aattttgggg gacttcactt tcc 453
```

<210> 62
<211> 2593
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (20)
<223> n equals a,t,g, or c

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<400> 62
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caaccagccc cattctggcc gcggctcagt ctttgcacgc ggaagctacc aagtgggtcta 120
gtaagggcaa tgacatcatt gcagcagcca agcgcacggc tctgctgatg gctgagatgt 180
ctcggttgtt aagagggggc agtggtagca agcgggcact cattcagttg gccaaaggaca 240
```

```

tcgccaaaggc ctcagatgag gtgactcggg tggccaagga ggttgccaag cagtgcacag 300
ataaacggat tagaaccaac ctcttacagg tatgtgagcg aatcccaacc ataagcacc 360
agctcaaaat cctgtccaca gtgaaggcca ccatgctggg cgggaccaac atcagtgatg 420
aggagtctga gcaggccaca gagatgctgg ttcacaatgc ccagaacctc atgcagtctg 480
tgaaggagac tgtgctggaa gctgaagctg cttcaatcaa aattcgaaca gatgctggat 540
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tggcacagaa acctctacta aaaagaagga aaatgatctg agtcccagga gctgccaga 660
gttgctggga gctgaaaaat cacatcctgg cctggcacat cagaaaggaa tgggggcctc 720
ttcaaattag aagacattta tactcttttt tcatggacac tttgaaatgt gtttctgtat 780
aaagcctgta ttctcaaaac cagttacact tgtgcacctt ctatcccaat aggagactg 840
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ctgctctgcc cttgttccct aggggacact tccctctgtt tctctttcct tggctcccat 960
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ctgggctgtg ctacctgggt ccttttcaga agtgagcttt gctgctacag gggaagggtg 1140
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tctgccactg gaagggcaga gtagccaggg tgtggccctg ccactctccc agcagggcca 1440
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gaatcaatgg gaaatactac tcctgtaatt cctacctccc tgcaaccaac tacaaccaag 1860
ctctctgcat ctactcccaa gtatggggtt caagagagta atgggtttca tatttcttat 1920
caccacagta agttcctact aggcaaaatg agagggcagt gtttcctttt tggacttat 1980
tactgctaag tatttcccag cacatgaaac cttatttttt cccaaagcca gaaccagatg 2040
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ttcccaacat cgaatgtgta caacttaagt tggctcctta cactcaggct ttcactattt 2160
cctttawaat gaggatgatt attttcaagg ccctcagcat atttgtatag ttgcttgctt 2220
gatataaatg caatattaat gccttttaaag tatgaatcta tgccaaagat cacttggtgt 2280
tttactaaag aaagattact tagaggaaat aagaaaaatc atgtttgctc tcccggttct 2340
tccagtgggt tgagacactg gtttacctt tatgccgat gtgcttttct ccaatatcag 2400
tgctcgagac acagtgaagc aaattaaaaa aaaaaaaaaa aaaaaatccc tgaatgatga 2460
ttagagacat caccgctaaa aaactacatt tataagctag gatttggtat atgcaaatat 2520
tttctgcctc ttcttttggt ctgtttaaaa caataaaatg catttgatata aaaaaaaaaa 2580
aaaaaaaaactc gta 2593

```

<210> 63

<211> 1195

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (80)

<223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (83)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (115)
 <223> n equals a,t,g, or c

<400> 63
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 gtctaggagt tagaaatgaa ttttttagac cttagtaaaa ccatttaacc ataaaatgga 180
 caactgagaa ttctcccagc tgcctgaaaag cgctgccaac tgtggttata ctgcaagctg 240
 ctacctgcaa cttggacgtt gtttccacgt gctctgctgg ctacgattct tgcattctgg 300
 gtttggtctt tttctgtgtc atcaactatg gttatcctct aaataggcat ttaatgaaac 360
 attgtacaaa ttgtcactca tttgatgaca cctgggaata acattagcag gctgatgtcc 420
 tgcaccatta tgtttactaa tcacatgttc tgtgtgctgt gacgactgtc aaagagtatc 480
 tggccatggc ggacactcag catttggtga ttgaataaat gttagctctt ctcatgtga 540
 aggactcact tttactggga taaacaaatg cagttaagaa ttctggcacc cttgtaagga 600
 agaaaagaga gttcaacacc ttcgagtctg agcgcttggt gctagagttt gccaggaggg 660
 aggaaaccag tgaccctgaa aactgagggt gcctcaggag cagtgggacc acctgatgct 720
 gaaggacgga ctaatgatgt ttctctctgc cttctctggt gcctccattg cctcatgga 780
 acagagcata tcatagaggg agaaaagtca aacttgtaat tgtgtcttac agttactggs 840
 ttcattctcc ttgggatata tggctatcct ctaatgagt taaaagtgcg caaacacat 900
 ccttattgtt cctgatctct tagtcccata aatgggaaca aatacagctt tctgcttctt 960
 tctttttggg gaaaaggacag ggtgctagt agtactgaca gcatgccagc taccraagtc 1020
 acccagccat tcccatgagc agcagttcat ttaattgtca cagcgtcgcc mggaagaaga 1080
 tctgataaac ctagggtttac agatgaagaa agcaaaatgt agagatgttg ttgaggtcac 1140
 agaggtgact gcctaacttc agagcagggc ttctgatccc ttaagaaat tacgt 1195

<210> 64
 <211> 392
 <212> DNA
 <213> Homo sapiens

<400> 64
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 tggcatccct gggtaaagta gtgcctatga agaagtagcc caaccaatgg ctttgagca 120
 cacaatgtcc cagtggggaa actgagggcc agagagggga agggacatgt ccaagggtcac 180
 atggtgatgg gacaccagc gctggggccac tgggtccgtg ctgacctcca gtgggtctgc 240
 cagccaaggg tgaggaaggc tgtggggagg ggaggtggcc aagtcaggct tccccctcca 300
 cctcgtcctc gctggcacag ccctcggaca cagctctgct cggggatgcc cgcctctcca 360
 ggtactctgc cttaagcygc tctacttcaa tt 392

<210> 65
 <211> 1290
 <212> DNA
 <213> Homo sapiens

<220>
<221> misc feature
<222> (229)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (231)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (233)
<223> n equals a,t,g, or c

<400> 65
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cgccgcccgc gcgcggcccc gtctgaggtc tggcagtcag agacagccgg gcgcccacgg 120
cccagcgcgc cagggcagca ccatgcccgc actcctggag cgccccaagc tttccaacgc 180
catggccagg gcgctgcacc ggcacattat gatggagcgg gagcgcaang ncnaggagga 240
agaagaggtg gataagatga tggaaacagaa gatgaaggaa gaacaggaga gaaggaagaa 300
aaaggagatg gaagagagaa tgtcattaga ggagaccaag gaacaaattc tgaagtggga 360
ggagaagcct ttggctctac aggaagagaa gcaccagcct ttcctgcagc tcaagaaagt 420
tttcatgag gaagaaaaac ggaggcgaaa ggaacagagt gacctgacca ccctgacatc 480
agctgcatac cagcagagcc tgactgttca cacaggaact catctcctca gcatgcaggg 540
gagccctgga ggacacaatc gcccaggcac cctcatggca gctgacagag ccaaacaat 600
gtttggacc caagtgtta cgaccggca ctacgtggg tcagcagctg cttttgcagg 660
gacaccagag catggacaat tccaaggcag tcctgggtgg gcctatggga ctgctcagcc 720
cccacctcac tatgggcca cacagccagc ttatagtcct agtcagcagc tcagagctcc 780
ttcggcattc cctgcagtgc agtacctatc tcagccacag ccacagccct atgctgtgca 840
tggccacttt cagccactc agacaggttt cctccagcct ggtgggtgcc tgccttgca 900
aaagcagatg gaacatgcta accagcagac tggcttctcc gactcatcct ctctgcgcc 960
catgcacccc caggctctgc atccagcccc tggactcctt gcttcccccc agctccctgt 1020
gcagatgcag ccagcaggaa agtcgggctt tgcagctacc agccaacctg gccctcggct 1080
ccccttcac caacacagcc agaaccgcg attctaccac aagtgaccat cagattatat 1140
cttcaacacc acacccccca ccccatcgtg ggtgagggtg tcccctgtgt gtcccaggcc 1200
aataaaatct acctgccact gcmaaaaaaa aaaaaaaaaa ctcgactcgt gccgctcgtg 1260
ccaattcggc agagctcctt cttttgtttt 1290

<210> 66
<211> 716
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (93)
<223> n equals a,t,g, or c

<220>
<221> misc feature

<222> (98)

<223> n equals a,t,g, or c

<400> 66

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attcactgct gctcagcatg gctcagacca actcatgctt catgctgac tcctgcctga 60
tgttcctgtg tctgaagcca agggcaggag ggnatgntg agttgccaa ggcccagatc 120
agctgcccag aaggsaccag tgcctaaggs tcccactgct actactttaa tgaagagcat 180
gagacctggg tttatgcaga tctctactgc cagaacatga attcaggtaa cctgggtgtct 240
gtgctcaccg aggctgaggg tgcctttgtg gcttcgctga ttaaagagag tggcaccaag 300
gatagcaatg tctggattgg cctccatgac cccaccgga tcagtctgct gcatcttcta 360
cctcctgatt atcagggtcc agagggtctg atgtctggca cctcaagcat cagtttttac 420
tatattatga taaaagcaac ctctctataa atcatataat gtaaaggata tcaaggttct 480
ccataggttc ttcgagataa gcttaaagct gaatttcctg tgtgtttcag gcattcacag 540
ataaactcat tctctgtact tctagggtag catctttatg tatctattat gtacctctta 600
tctattgtgt tatcatctct gttatagaag agccttctgt agaccatata gaaaaagatt 660
atagaggagg agaattctact gctggcaatt ggaaccgca agtattacta aataat 716
```

<210> 67

<211> 1126

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (416)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1109)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1113)

<223> n equals a,t,g, or c

<400> 67

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ggcacgagct gcacagtact cttgggtttat caatgggacg ttccagcaat ccacacaaga 60
gctctttatc cccaacatca ctgtgaataa tagcggatcc tatatgtgcc aagcccataa 120
ctcagccact ggctcaata ggaccacagt cacgatgac acagtctctg gaartgctcc 180
tgtcctctca gctgtggcca ccgtcggcat cacgattgga gtgctggcca ggggtggctct 240
gatatagcag ccctgggtgta ttttcgatat ttcaggaaga ctggcagatt ggaccagacc 300
ctggaattct tctagctcct ccaatcccat tttatcccat ggaaccacta aaaacaaggt 360
ctgctctgct cctgaagccc tatatgctgg agatggacaa cttcaatgaa aatttnaaag 420
ggaaaaccct caggcctgag gtgtgtgcca ctcagagact tcacctaaact agagacaggc 480
aaactgcaaa ccatggtgag aaattgacga cttcacacta tggacagctt ttcccagat 540
gtcaaaacaa gactcctcat catgataagg ctcttaccct cttttaattt gtccttgctt 600
atgcctgcct ctttcgcttg gcaggatgat gctgtcatta gtatttcaca agaagtagct 660
tcagagggta acttaacaga gtatcagatc tatctgtca atcccaacgt ttacataaa 720
ataagagatc ctttagtgca cccagtgact gacattagca gcatctttaa cacagccgtg 780
```

```
tgttcaaagtg tacagtgggc cttttcagag ttggacttct agactcacct gttctcactc 840
cctgttttaa ttcaaccag ccatgcaatg ccaaataata gaattgctcc ctaccagctg 900
aacagggagg agtctgtgca gtttctgaca cttgttggtg aacatggcta aatacaatgg 960
gtatcgctga gactaaagt gtaagaaatt taacaaatgt gctggcttg gttaaaatgg 1020
ggctacacty catctgactc attctttawt cyattttaag ttggggtttg gaaaccttg 1080
cccaaagggg gcgtaagtcc caaccctng ggnaattaac cccccc 1126
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<210> 68

<211> 2139

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2067)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2123)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2138)

<223> n equals a,t,g, or c

<400> 68

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aattccagga caccacacct ctcaaaggtt tctgacttcc ttgtcccaa atattaatcc 60
ttctgtcca gattccaatg atcagcacca agaggtcccc ttttccttct gccaggcatt 120
ggccctgtg ataggactct tggtcactta gttaaaatca cagtggccca aggaaggaac 180
ctcctgagct tgattaccct cactatggag cagaaggacc tggccctgga cacagggcgg 240
tgcacagtat aaactaacca ctgcctgacc tgagcttttg ctgaaatgac acacaggyct 300
ytgcactgcc cacctctcca acctgaggca gaacaagtag gcgatgattt gcactgcatg 360
attctcagtg tgaaagtcta tgttggcaaa ggatatttca agtggaaactt agaagctatt 420
ccttaaggct aggacgaaca ccacgtaca cgcaaggct atcctatttg ataaagatca 480
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gatcacttct gcctttatct ttgctgttta ggggatgtgt tatcacagaa acttggaatg 600
cagagaaatg ttatcacaga aacttggaat gcagaaaaat ttttscyttt yaggggaggt 660
gttatcacag aaacttgga tacaagacc tccccccacc gcagccctgc cccacccac 720
ctacccctg ctggatttag cactgcactt ccattttagc agtgatttcc ttcctttttg 780
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gagactgttt gccagtttg caggagagga tgcggagatc tctgcctttr agctgcagac 960
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gtggatctgt gttgggaaac attctgttca tatgctttaa gatgcagcaa ctctgcaca 1200
gagtggagaa acatttccaa ggggattggg attttaccce taatgaagct cagagtgaat 1260
aaagatgggg ctgaggaat gcaaacaaaa aaccaaccag gacttcgcag gtgaaatggc 1320
ctattccctt cctcctgatt attgggatca tctaaaggcc accatcaagg gtttcctgaa 1380
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aagggttttt gacagctaaa gtacaaaaat tatataagac aagaacatgg acctatgggc 1440
gttggctggc tgatttratg ggcataattta caaaccagct cacagacaga agcaaaatac 1500
tattagttat ttaaggcaga aacataagtg attcttccac ggccaaacta gaggcacaga 1560
gctggaaaaa cttcatcccc actcagcaca tactagggag gtaacttgcc agctttgctt 1620
tgggtcatag ttcttacagc kaacttatgt gttcagaaaa ttaccgaga aatcgacgtt 1680
gacaggtctg gtaccatgaa ttctatgaaa tgcggaagga ttagaagaag caggtttcaa 1740
gatgccctgt caactccacc aagtcacgtg tgctcggttt gcagatgacc agctcatcat 1800
cgattttgat aattttgttc ggtgtttggt tcggctggaa acgctattca agatatttaa 1860
gcagctggat cccgagaata ctggaagaat agagctcgac ctatctctt ggctctgttt 1920
ctcagtactt tgaagttata actaatctgc ctgaagactt ctcatgatgg gaaaatcagc 1980
caagggaactt aagcttccat aggaaataca ctttgtatct gggacctcca aaattatggg 2040
ggaaccattt aactttaaac ggggtggncca taggctggaa aattattggt tactgtccat 2100
tttgagggtt ggccggaagt ttncacacct ccaaggtna 2139
```

<210> 69

<211> 1341

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (20)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (376)

<223> n equals a,t,g, or c

<400> 69

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cctttttggg catatctact gtctagaaac atttgtggga gaccaagttc ttgagattgt 120
accaagcaat gaagaacaaa ttaaaaatct gctacaattg gaggtcaag aacatctcca 180
gcttgatttt tggaaatcac ccaccacccc aggggagaca gccacgtcc gagttccctt 240
cgtcaacgtc caggcagtca aagtgttctt ggagtcccag ggaattgcct attccatcat 300
gattgaagac gtgcaggtcc tgttggaaca agagaatgaa gaaatgcttt twaataggag 360
aagagaacgg akggtnaact tcaattttgg ggcctacat accctggaag agatttccca 420
agaaatggat aacctcgtgg ctgagcacc ctggtctagt agcaaagtga atattggctc 480
ttcttttgag aaccggccta tgaacgtgct caagttcagc accggaggag acaagccagc 540
tatctggctg gatgctggga tccatgctcg agagtgggtt acacaagcta cggcactttg 600
gacagcaaat aagattgttt ctgattatgg aaaggaccca tccatcactt ccattctgga 660
ygccctggat atcttcctcc tgccagtcac aaaccctgat ggatacgtgt tctctcaaac 720
caaaaatcgt atgtggcgga agaccgggtc caaggatatct ggaagcctct gkttggtgt 780
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cttcatcaag agtcatggaa aagtcaaggc cttcattacc ctccacagct attccagct 960
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agtggcccaa aaggctgccc aatctctgag aagcctgcat ggcaccaagt acaaagtggg 1080
accaatctgc tctgtcatct accaagccag tggaggaagc attgactggt cctatgatta 1140
tggcatcaag tactcatttg ctttgaact gagagacaca gggcgctacg gcttcctctt 1200
gccagcccgt cagatcctgc ccacagccga ggagacctgg cttggcttga aggcaatcat 1260
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ggagcatgtg cgagaccacc cctattaggg ccctggggaa gaaacaagag ccattaaaat 1320
ctctttggtt tgaagcaaaa a 1341

<210> 70

<211> 735

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (628)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (730)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (732)

<223> n equals a,t,g, or c

<400> 70

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caaaccggca ctgagcttca gccagaggat tgtcaacggg gagaatgcag tgttgggctc 120
ctggcccttg caggtgtccc tgcaggacag cagcggcttc cacttctgcg gtggttctct 180
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tgttgctctg ggagagtatg accgatcatc aaacgcagag cccttgacag ttctgtccgt 300
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gctgaagctc gcctcgccag ccaggtacac aacacgcac tcgccagttt gcctggcacc 420
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tggcgtgggc aatgtracac cagcacatct gcagcaggtg gctttgcccc tggtcactgt 540
gaatcagtcg cggcagtcact ggggctcaag ttatcaytga ctccatgatc tgtgcagtgc 600
caaaggttgc ctctcctcgtg ccaaggtnga ctccgaaaag ccctctttgt tctgcccaaa 660
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actgcaatgn tngcg 735

<210> 71

<211> 2030

<212> DNA

<213> Homo sapiens

<400> 71

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agcgagggcg agagtggggg cagcatgcac acggcgctct ccgacctcta cctggagcat 180
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gacatgtaca ccaacgggtc tcctgcccc a gtagccctg cccaggtcaa gggacaggag 300
gtgcggaaaag tgcgactcat acagtttgag aagggtcacag aagagcccat gggaaatcack 360
ctgaagctga atgaaaaaca gtccgtgtacg gtggccagaa ttcttcatgg tggcatgac 420

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catagacaag gctcccttca cgtgggggat gagatcctag aaatcaatgg cacaaatgtg 480
acaaatcatt cagtggatca gctgcagaag gcgatgaaag aaaccaaagg aatgatctca 540
ttaaaagtaa ttcccaacca gcaaagccgt cttcctgcac tacagatgtt catgagagcg 600
cagtttgact atgatcccaa aaaggacaat ctgatccctt gcaaggaggc gggactgaag 660
tttgctactg gggacattat ccagattatc aacaaggatg acagcaattg gtggcaggga 720
cgggtggaag gctcctccaa ggagtcagca ggattgatcc cttcccctga gctgcaggaa 780
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tggaccccat ccctctaaag cctgccctcc tttgccttca actgtatatg ctgggtattt 1860
catttgtcct tttattttgg agaaagcgtt tttaactgca actttctata atgccaaaat 1920
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gctgtgttga aatgccaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 2030

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<210> 72

<211> 1875

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (3)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (339)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (350)

<223> n equals a,t,g, or c

<400> 72

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gantgttga gctactctgt gacatttaat cattaataga agatttgggg tatacactac 60
agatgggccc tgtttgctga aatgttgggg ccaaacaact tgatagagcc tatgatgttc 120

```

```

ctttcaagct ttctaaagtt tccaccaacc tcagatgaaa atgtaactgt gagaagtaaa 180
tttaacaaca ttgttgctctg catatgtgtg ccaaaatgga agacagaatc atgaaaaaga 240
agcttattttt ataaccatgg tgggtggtca tgtttgagta gtaatgctcc ttggtctggc 300
cactgaagaa tgacagagcc cagggcccccgtgccatcnt gccatcactn gctttggagc 360
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cgctgtacct tctgattgtg gggatcctca tagcatatta tatttatacg cctctcccag 480
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at ttggttgt cgaggagcttt gatgaagtcc caccaacctc agatgaaaat gtcactgtga 600
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cactaagaag ggggttgttt tacatccatg gtggaggctg gtgcgtggga agtctgtctc 720
taagtgggta tgacttgctg tcaagatgga cagcagacag acttgatgct gtcgtcgtat 780
caaccaacta cagattagca cctaagtatc atttcccaat tcaatttgaa gatgtatata 840
atgccttaag gtggttctta cgtaaaaaag ttcttgcaaa atatggtgtg aaccctgaga 900
gaatcggtat ttctggagat agtgcaggag ggaatttagc tgcagcagtg actcaacagc 960
tccttgatga ccagatgtc aagatcaaac tcaagatcca gtctttaatt tatcctgccc 1020
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aaattggctt ttcttaaaat ggtctagtta agttccacat gtagcataat tcttaaatag 1680
gcacttttct gttttttttt tcttactgtg ggatttcatt tcaattttct acattgtcta 1740
tctgcttttt ctgagatttt ccttcttaca ctgttaatct tattttaaaa aatattacat 1800
tcttgatatac tttatttttg tgagttggct actattttac atgcaagaga ataaatgtga 1860
gcaaatattg ccgaa 1875

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<210> 73

<211> 860

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (3)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (13)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (40)

<223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (802)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (812)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (843)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (857)
 <223> n equals a,t,g, or c

<400> 73
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 tctgcaacat ggggaagaac aaactccttc atccaagtct gggtcttctc ctcttggtcc 180
 tcctgcccac agacgcctca gtctctggaa aaccgcagta tatggttctg gtccccctccc 240
 tgctccacac tgagaccact gagaagggct gtgtccttct gagctacctg aatgagacag 300
 tgactgtaag tgcttccttg gagtctgtca ggggaaacag gagcctcttc actgacctgg 360
 aggcggagaa tgacgtactc cactgtgtcg ccttcgctgt cccaaagtct tcatccaatg 420
 aggaggtaat gttcctcact gtccaagtga aaggaccaac ccaagaattt aagaagcgga 480
 ccacagtgat ggtaagaac gaggacagtc tgggtcttctg ccagacagac aaatcaatct 540
 acaaaccagg gcagacagtg aaatttcgtg ttgtctccat ggatgaaaac tttcaccccc 600
 tgaatgagtt gattccacta gtatacatc aggatcccaa aggaaatcgc atcgcacaa 660
 ggacagagtt ccagttagag ggtggcctca agcaattttc ttttccctc tcatcagagc 720
 ccttcacagg ctccttaca ggtggtggtg cagaagaaat cagggtgggaa gggacagagc 780
 acccttttca ccgtggggagg anttggtgct tncccaagtt tggaagttac aagttaacag 840
 tgnccaaagg taatcancat 860

<210> 74
 <211> 520
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (34)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (485)
 <223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (498)

<223> n equals a,t,g, or c

<400> 74

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cgaagcgctc agtggcctaa cggtcacagc tgtcgcccat cggagaggca ggactactgc 120
gagcagtttt accgcgacct ccggagccgg cgtgacagge tctgtcayta aaataggtct 180
gtccagtcgt actttttcct caccttgaac tttccgtcac ggaatacac gatttggttt 240
argggccggg gctctcctga ggagaraggg tttgctttgc ggggaagagc gagtcttgac 300
ttcgacgcct ccaatttcag ccgcggtgtg gaggggggtg ctttgggtgg tccccacagc 360
ctttccggag tgcccgcgcg tgtgagcttt tgagatttga caatttgtga agtgcttggt 420
gctgactttc ggggacgaca ggatcctttt acagtcattc tcctgtcagg gaagcaagtg 480
gggancgagg aagatcanaa tcgtaacaga cttgagttaa 520
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<210> 75

<211> 863

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (6)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (772)

<223> n equals a,t,g, or c

<400> 75

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gnccgnaagc agcagcgcag gttgtacccc gtttcccctc ccccttccct tctccggttg 60
ccttcccggg ccccttacac tccacagtcc cggccccgcc atgtcccaga aacaagaaga 120
agagaaccct gcggaggaga ccggcgagga gaagcaggac acgcagagaa agaaggtatt 180
ctgcctgaga gagctgaaga ggcaaagcta aaggccaaat acccaagcct aggacaaaag 240
cctggaggct ccgacttcct catgaagaga ctccagaaaag ggcaaaaagta ctttgactca 300
ggagactaca acatggccaa agccaagatg aagaataaag agctgccaag tgcaggacca 360
gacaagaacc tgggtgactg tgatcacatc cccaccccac aggatctgcc ccagagaaaag 420
tctcgcctcg tcaccagcaa gcttgccggg taacctgagc cccctctccc tccccctcct 480
caaccactgg acgtttatat attataggca gggatgaaat gggcacctag tcagatcttc 540
tcagcttgct agccagaaat gactgtgatt ctgctggggg ctgctgagaa ggtaatgtag 600
gttgaaaagg ggctctaagt ttatttattt cgttagattg acacttccac acactccctg 660
tagtccaggt agggcccaga aataggaaaag gctaggattg gataatgctg caaatgcttt 720
ttttgtgtga gaaactggga gagatgtgat ttctcctttg gggagagaaat tntcccaaat 780
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ttgatttagg gtgagccttg ggaatagttt tggcagggtt taacatccca agggttaacc 840
 taacgtagtt tgggaaaagg tag 863

<210> 76
 <211> 691
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (674)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (681)
 <223> n equals a,t,g, or c

<400> 76
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 ttgtcactga ttctttgctt caggagtctc agctagggag ttgaagtgtt tacatcagac 120
 tgccttgtgc aattcttata tttattttac tggttcactt ttttttacct ttatttttagt 180
 ctttatattt ttatttttaa gcattgatgt acttagttgt tgaaaggggtg atgaaactga 240
 tatccagata cttgagatcc tggtaattgg tcataaataa ttggcaaaaat aacaaattgt 300
 gaaaatagaa gccattgctc agcaccgttt ctccatcaat gccgtgaact tgccttactt 360
 gaggaaaaat tctttaactt tggaatattg cattgaactc agctatacac ataaaaacatt 420
 ttcttttgga aatcaagatc cagtcagggt ttctcttgaa ttattttgga acaatgccag 480
 gatccaaact gattaagtta cagtttaagc acccttcagt attaataat acggtattat 540
 ataacaggtc aacaagtgtc ctttgatgat aaaacttgta atagagcaat aattgtaaat 600
 ggttaccata ctgtaagata ttttgataaa aattaactag taatacttgt atttatttga 660
 aacactgggg gggngggagt nggggggggg g 691

<210> 77
 <211> 325
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (310)
 <223> n equals a,t,g, or c

<400> 77
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 cccgacgctg ctctacaccc tggtccgcgg gaagggtgcc ggtcgggcgc accgggactg 120
 gtaccacgc atcgaccca ccgtgctgct gggcgcgctg ccgttgccga kttgacgcgc 180
 cactggtaga ggacgagaac gtgcgcgggg tgatcaccat gaacgargar tacgagacga 240
 rgttcctgtg caaytyttca caggtgcaca aatggaatcc agaagaagct gtaagaccat 300
 cgccaagatn cggtcataca tccaa 325

<210> 78

<211> 821
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (45)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (54)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (690)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (771)
 <223> n equals a,t,g, or c

<400> 78
 acttagttct agatcgcgat ctagaactac ccacgcgtcc gcggnacgct gggncctctgt 60
 gaattcttgaa tggtaaaaaac caacactgct tttaatcctc ttttaatggt ttaatacrag 120
 ctttctgttc tgaaacaagg ctgcataagt agaattgggaa tccttctaaa ggtgggtgtg 180
 aactcaccac aagctgagct ttatagagcc cttgagaaac cctcctgagc actaagcagt 240
 tgggggtgctg attttcttgt acttttgaaa aattaagtca ctcccagttt cctgcataag 300
 ttcttgaaca gaatgaaatc acatctccat tcaaaaaatg tctcaagcat ctactgttgt 360
 gtaagggaact tctgattctg attgctgtta cttgaatagg aaatgggttac tcattctgta 420
 taaaagtttt gcaagagaat gaatttttta ttctgtaatc aaaaagcaat aacttgaaat 480
 tcaactctgta atattatagg kcagaattat acaagtttta ccaaattggt acacttattc 540
 tccaagctgc cagaacctgg tatctgtatc tgtaaaacca aattaacttt tgcttaaatg 600
 ggaagtatac atatatctgt atagatacat tacccttcta catgtttaac atacacacac 660
 ttaaacacat aaatactagt gtgattatan tttggagttt gcaatatagc ataaaggaca 720
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 gaggaatttg tccacaggaa ggtgaggaat tccaatgagc c 821

<210> 79
 <211> 617
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (538)
 <223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (595)

<223> n equals a,t,g, or c

<400> 79

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tagagcatga gctcaggcaa gaggccccgc tacaaccgct tctccggggg gccagcaat 60
cttcccaccc cagacgtcac cacagggacc agaattgaaa cgaccttcgg acccgcttt 120
tcagccgtca ccaccatcac aaaagctgac gggaccagca cctacaagca gcactgcagg 180
acaccctcct cctcsagcac ccttgcttac tccccgcggg acgaggagga cagcatgccc 240
cccacagca ctccccgccg ctccgactcc gccatctctg tccgctccct gcactcagag 300
tccagcatgt ctctgcgctc cacattctca ctgcccagg aggaggagga gccggagcca 360
ctgggtgtttg cggasagccc tcggtgaagc tgtgctgtca gctctgctgc agcgtcttca 420
aagaccccgat gatcaccacg tstsggcaca cgttctgtag gagatgcgcc ttgaagtcag 480
agaagtgttc cgtggacaac gtcaaactga ccgtgggtgg gaacaacatc gcggtggncg 540
agcagatcgg ggagctcttc atccactgcc ggcagtgccg ggtaacgggc aagcnggaaa 600
gccccatct ttgaagt                                     617
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<210> 80

<211> 1189

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1107)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1156)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1167)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1188)

<223> n equals a,t,g, or c

<400> 80

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gtatcaaagg gaaagagtat ttctccttaa ataaaattac aaataagaaa tgtatgtttt 120
actcttactc ataaaaggta ttgtagaata caaaaggttt ttcaaactgg ttttgctttt 180
gattggcttt tataatccac acttcaaaga agaaatgcat ttaactttta ataacttagt 240
caaaaagtat aatgttgctt tgccctgcat aacctttaac tattgcaaat gatgttttgt 300
ccttccccct tgtccagtat tttccaaatg gtcaacagtt taaacattta agcttgactc 360
gagaaacctt gccacatttc agcagttttg ttttgctttt ggtggagagc acctgatctc 420
gactttacag ccaatgtatt tactctaaat tacactttta tagatacaag gtaaagtgtg 480
```

```
gctgggtgaa ggcactcagg agccataaaa tgtggtcaac cacaataaat taaaatgtaa 540
gctaaacaaa gtattcacac ttgcattttt ttaataagga atttaagatc catagtatct 600
ttaatgcttg gaagagacac aaattcaagg tgataaaaat attaattaga agacacataa 660
catgcctcaa gtatatcaac acttgactcc acaacaagg cataaccatg aaaacaacac 720
tccctttatt ttgggctccc aaaatcaaaa gttagaacta atttatttaa tcacagatat 780
ttagtatact caataatgca ctaacaattt ctttaaaaaa acactaatac tgtacagtat 840
ttctgtgttt tagtttttcc cacagctgtt gaaaatttca gccttgattt gaaacatgac 900
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gcagttaagt ttttcgacaa tgccaaggat caaaaacaga tggaaaacaa catttggtg 1080
aagatgaaaa ggtattggca ttggtcntaa tagatgttgc catctctggg gtgaggatgc 1140
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<210> 81

<211> 466

<212> DNA

<213> Homo sapiens

<400> 81

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gccgggccgc gtcctctctc ctccggccgc cggccaccgc cgaagtctta ggggcggggg 120
gctcgccccc cgcaggagtc accccaactt tcacggctcc aaaaaatact tcccgagttg 180
ggggaggggg ccaccgagcc acgagcagga gtggcttttg tccctcatcc ttgtttactc 240
ggagaaactt cagaccggac gtgttttagt agaacagaaa tacatctcag ggccaaaccg 300
ataggaaacg aggtgcctc gcgtggcac cgcaccyccc aaccgggttc cgagcaccgc 360
agctggctgc tgctccctct ttggagcaaa gttttatgca aagagggtgt tttttgaaac 420
tttcggtgca cggtgatttt tttttttaag gtcccataat taggaa 466
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<210> 82

<211> 360

<212> DNA

<213> Homo sapiens

<400> 82

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atctgggaat caagtaggtt tttggtctgt gcttttataa gtatttcttc tatgtgaaat 60
cactctaagt ttgaatagta gaatttctta tcttttgacc aagatgtgtt acataaactt 120
gggttagcat aaaaaaacia aaatttttta aaccctcatg tgtcttaaag ataatagtag 180
actagaaata ttaagagctg aaccaagagt tttaatgtat ggtaatttga aataatttta 240
atttactgga taattttatt ttaccagtat attacaagtt gagttgrctg gaagggtagt 300
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<210> 83

<211> 2109

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2066)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2083)

<223> n equals a,t,g, or c

<400> 83

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taagctggc 2109

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<210> 84

<211> 1535

<212> DNA

<213> Homo sapiens

<400> 84

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atggtcatag gcgacgattg acttggaag cgactcctcg atctattcat gaaggaattg 180
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cagaaaatgg caatttaggc atcaatgtaa ctatttccat gtgttgaaat ggcaatcaaa 300
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ccaacctaaa actctttcgg taggtggaag ctagacacat gaaggtaaat aaaagaaaag 420
gctgttaaat acaggaaaca gtgcatgta gtaacactaa tatatttaaa aataagtcaa 480
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tggaataa aaaaaatctt actgtgtctg ctttagtcta agtttgataa aatccgawgt 1380
tattttctcg ttctattcca tactttaatt atatagcaga aagctgtgtg ttgtcatttt 1440
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attggtcttt ycccatgcc ctgccccttc ttgcc 1535
```

<210> 85

<211> 431

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (325)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (334)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (347)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (381)

<223> n equals a,t,g, or c

<400> 85

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ctgmcccggc cttggatatg ccagatcgag tgtccacccg tccgtgggac tggtcgcctg 180
actcggcctg cccagsgcts tgcttcaccc cactggtggc caaatagccg atgtctaate 240
ccccacacaa gctcatcccc ggctctggc gattgttggg aattctctcc ctaattcacg 300
cctgaagggtc atggagagtt gctanaactg ggantgccct gggaagngca aaaaaccaag 360
ccgggttgca gcaagacttt nccagtcctg tttttttggg cgtgattcgg ccggaacatg 420
caggtgatag t 431
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<210> 86

<211> 1142

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (478)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (565)

<223> n equals a,t,g, or c

<400> 86

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ggctgcattg atgtcgggct ctcagtgatg tctgtaaaga agtcatcaaa atgsatagac 180
cttgacaccg aggagcacat ctaccatctg aaggtcaagt cagaagaagt ctttgatgag 240
tgggtatcga aacttcgcca ccacagaatg tatcgtcaga atgaaattgc catgtttcca 300
catgaagtta accacttttt ctcagggtcc accatcacag actcttcac tgggggtgtt 360
gactccattt caagtaggaa gcgtacagtt atatcaaagc agaattttatt tcaaactggg 420
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taatttgtca acactagatt ttggagaaga gaaaaattat tctgatggct ctgaaacctc 720
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aa 1142
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<210> 87

<211> 1797

<212> DNA

<213> Homo sapiens

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 <222> (645)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1793)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1794)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1796)
 <223> n equals a,t,g, or c

<400> 87
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 gggcgatatct catggcggac atggctcaca tcagcgggct ggtggcggct ggcgtggtgc 180
 cctccccatt tgaacactgc catgtggtga ccaccaccac tcacaagacc ctgcgaggct 240
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 aagagattct gtacaacctg gagtctctta tcaattctgc tgtgttcctt ggcctgcagg 360
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 ctgagataac caactccctc ccgtaatcag gaagcctaat gtcaccttcc caaagaaatt 1620
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 tttttaacca cagaatgtct acaagaatta tagctttaaa aaatacaacc aatttttata 1740
 tttcaaaaat atttgaactc aaataaatta atttcttaaa aagtaaaaaa aannang 1797

<210> 88
<211> 381
<212> DNA
<213> Homo sapiens

<400> 88
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ggttcacccct tccatcgtat tctcccaact acacattgta aagcctgaga aacttctaga 180
acctcaggaa gctgcagctg gagggctggg gcacctgccc ccctgctccc cacacatcat 240
atcctcccca tactcctgca gggcccacgg ctccctgagca acagctggga camccggcct 300
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<210> 89
<211> 538
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (24)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (53)
<223> n equals a,t,g, or c

<400> 89
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<210> 90
<211> 2121
<212> DNA
<213> Homo sapiens

<400> 90
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ggcaaccacg atggggctgt ccagcaatat atccgaacca ttggaaagt ggagccatcc 180
tacgtgatcc gcaagtttct ggatgcccg cgcattcaca acctgactgc ctacctgcag 240

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gccctgtatc tggcggagaa ccatgcacat catgagtggg acctgaagat ccagctagaa 480
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<210> 91

<211> 2974

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2833)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2862)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2938)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2942)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2949)

<223> n equals a,t,g, or c

<400> 91

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aaggaaaaata taaatgataa aaattttccc ttctggcttt ggattgaaa catcctagaa 1980
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aaggagcgag agcgtgccct gttgaaggac cagcagccgg ggaccttctt gctgcgggtc 2100
agtgaagagc ccggggaagg ggccatcaca ttcacatggg tggagcgggt ccagaacgga 2160
ggcgaacctg acttccatgc ggttgaacct tacacgaaga aagaactttc tgctgttact 2220
ttccctgaca tcattcgcaa ttacaaagtc atggctgctg agaattattc tgagaatccc 2280
```

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ctgaagtatc tgtatccaaa tattgacaaa gaccatgcct ttggaaagta ttactccagg 2340
ccaaaggaag caccagagcc aatggaactt gatggcccta aaggaactgg atatatcaag 2400
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gacagtatga tgaacacagt atagagcatg aatttttttc atcttctctg gcgacagttt 2580
tccttctcat ctgtgattcc ctcctgctac tctgttcctt cacatcctgt gtttctaggg 2640
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aactcagaaa catcagttac tctgaagggc atcatgcatc ttactgaagg taaaattgaa 2760
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<210> 92

<211> 412

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (136)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (229)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (349)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (371)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (383)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (404)

<223> n equals a,t,g, or c

<400> 92

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ggcacgagcc tccgcgagtc ccagcgctcc ctctggggag tgcggttgag gggctgtcct 60
cgcacggagc ctcgctcggc ctcgggggag ccacgagagg tgggagttgg acccgcagcg 120

```

```

ggccaggagc cctgtncatt ggaggaccgc ccaaaaagga agcaaaccct ctttttcttt 180
atccaacccc aaatagctag ggccctagggg gaagactcac atatcgatna aatgggttgt 240
tgcccgtttt attctctggg aaatacaact grtcttacca aaggaaatta acctgtcttt 300
ttggccgtgt ttaatttagg aggccatagg attacctgtt ttcagaggnt ggaaggggac 360
ctggaggccc ntggttaatc cnttaacct cgtggaggaa agcnggaaaa aa 412

```

<210> 93

<211> 1883

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (8)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (252)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1591)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1819)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1883)

<223> n equals a,t,g, or c

<400> 93

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ccgtgccttc accccagagc agctgcagcc tcagccggcc gcccctccgc cagccaagtc 60
cgccgctctg acccccgcca gcaagtcgcc accatggtga agatcgtgac agttaagacc 120
caggcgtagc aggaccagaa gccgggcacg agcgggctgc ggaacggggg gaaggtgttc 180
cagagcagcg ccaactacgc ggagaacttc atccagagta tcatctccac cgtggagccg 240
gcgcagscak gnaggccacg ctggtggtgg gcggggacgg ccggttctac atgaaggagg 300
ccatccagct catcgtcgc atcgtgccc ccaacgggat cggtcgcttg gttatcggac 360
agaatggaat cctctccacc cctgctgtat cctgcatcat tagaaaaatc aaagccattg 420
gtgggatcat tctgacagcc agtcacaacc cagggggccc caatggagat tttggaatca 480
aattcaatat ttctaattga ggtcctgctc cagaagcaat aactgataaa attttccaaa 540
tcagcaagac aattgaagaa tatgcagttt gccctgacct gaaagtagac cttggtgttc 600
tgggaaagca gcagtttgac ttggaaaata agttcaaacc cttcacagtg gaaattgttg 660
attcggtaga agcttatgct acaatgctga gaagcatctt tgatttcagt gcaactgaaag 720
aactactttc tgggccaac cgactgaaga tccgtattga tgctatgcat ggagttgttg 780
gaccgtatgt aaagaagatc ctctgtgaag aactcgggtg ccctgcgaac tcggcagtta 840

```

```

actgcgttcc tctggaggac tttggaggcc accaccctga ccccaacctc acctatgcag 900
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atggggatcg aaacatgatt ctgggcaagc atgggttctt tgtgaaccct tcagactctg 1020
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gctgcaggag aagacgggac gcaactgcac ccactgtcat cacctaagaa gacaggcctg 1800
atgtggtacg tccctccanc cccggaccca tccaagtcac ctgattgaag agcatgacag 1860
aaacaaaatg tattcaccaa agn 1883

```

<210> 94

<211> 2311

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (7)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (689)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1657)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2311)

<223> n equals a,t,g, or c

<400> 94

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ccgcagnact gcacaactct gccaggggtg aggttcttgg cctcagctcc tccctgggga 60
aggaactagt ctttctccaa gaagaactcg acttgtctga aatccacatt ccagaggctc 120
aggaagtggg aatggcctca ggtcattttg cttcccyaca tgtgcctggt ccagatggca 180
gggctcctta ctgcaaggca tctctcagcg cctccagcag cctggaaccc acgcctcctg 240
aggacacagc catcagcagc ttgcgcctc cctctgctcc tgagatgctg acccagcatg 300
gagcccaaga gcagctcgaa gaccatcctg gccatagcag ccaagccccc attccagag 360

```

```

cagaccctct cccagaagg acccgagcc cttgttattg cctcgcttag atccaggaca 420
gagaggaaac aagcttccca cgggggaaca aggcctggat gaggatgttg atggggtctg 480
tgaaagccac gcagccctcg gtctggaatg cagttcaggc tcagcaaact gtcagggtgc 540
tgccccctct gcagatggaa tcagctccag gctgacacca gcagagtcct gcatggggct 600
cgtgaggatg aatctctaca ctactgcgt caaagggtcg atgctgtccc tgctggctga 660
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gagcagcacc tacaacttca catattacga ccgcattcag agcttgctga tggcaaacct 840
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cgtgcagctg gttcctctcg agcgagtgtc cctaaatagg agtttacaag atgtctgggg 1920
gtaaaagcac tgtgtttttc agtgggtggc gcgtgaaaag gagcgacact cagctgtgtg 1980
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ctgatatctg atgtttatga tatgggtgtc ttttcttgaa acaagcttcc aagggtctga 2220
aataaaatag ccaaaaaatg ctggagttct gagtaaaaaa ggcagcattt tttgtgaca 2280
aaggtaaggg ttaagacagt gtgtgtgtgt n 2311

```

<210> 95

<211> 514

<212> DNA

<213> Homo sapiens

<400> 95

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ggcacgagct gtgggtacc tcactacacc cactgctgcc ctggcctctg ctcccacctc 60
agtgttgtcc cagtcaggag ccttgggtcc catgcagggt gtcccataca cggctggtat 120
gaaggatctg ctacgcgtct tccaggccta ccagctaccc gctgatgact acaccagtct 180
gatgcctgtt ggtgaccac ctcgcactgt gttacaagcc cccaaggaat ggggtgtgtt 240
gtaggagaga aagccaggag gtaagagcca gctgatatcc tcggcgaaca tgtctctcct 300
gagtcagaa gaccagcacc ctcaacctgg tagcttctt ctggcttgct aaagctcttc 360
agaaggtagc tagaggrgac caagccccag ctccatcctc cacttattyt gcctgtttcc 420
cccaaagaca atggctggac cctgcatgca ggctgggggt ggaatgggyt aacaytccga 480
tggtgrrca ggmttcttga ctggcacctg gaaa 514

```

<210> 96

<211> 465
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (375)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (406)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (417)
<223> n equals a,t,g, or c

<400> 96
gggcacgagc tagaaaccac tgctgacgtg gaagagatca ctggagaagg actcactgct 60
tctggtagtg gtgatgtcat gaggagacgt attgctaccc cagaagaagt tcgtcttccc 120
ctccaacatg ggtggcggag agaggtgctc atcaagaagg gcagccaccg atggcagggg 180
gagacctggt attatggccc ctgtggkaag aggatgaagc aatttccaga agtgatcaag 240
tacctgagcc gcaacgtggt acacagtgtc cgccgagagc acttcagctt cagtccccgt 300
atgctgtgtg gagatttctt tgaaagaaaag agacacgcca gaggtgcaga cccaaagggt 360
aaatatgctt ttgtncctga agaagagttg gtggacaaac tgcagnttcc tctcgtnggg 420
gtttaaagtt cttgggcatt taatggtccg aaggcctcgt ggcct 465

<210> 97
<211> 1459
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (649)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1104)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1418)
<223> n equals a,t,g, or c

<220>
<221> misc feature

<222> (1434)

<223> n equals a,t,g, or c

<400> 97

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gggagtcctat gaacatcttc gagaccatcg tcaacaacaa gctcttcttc aacgtctcca 60
tcattctctt cctcaacaag atggacctcc tggaggagaa ggtgaagacc gtgagcatca 120
agaagcactt cccggacttc aggggcgacc cgcacaggct ggaggacgtc cagcgctacc 180
tgggtccagtg cttcgacagg aagagacgga accgcagcaa gccactcttc caccacttca 240
ccaccgccat cgacaccgag aacgtccgct tcgtgttcca tgctgtgaaa gacaccatcc 300
tgcaggagaa cctgmrggac atcatgtgtc agtgagcgag gaagccccgg ggtttgtcgt 360
cgttgagcag cccccacggc tgcgtgtcag actcttgggt gtgtgtgtgc tgtgtgttcc 420
ttgagtgggt ttctcggatc cgtgcccttg aatacctggc tcaggaatgc tgtcagacca 480
gccagccagc gagctctagg caaaaggaca tggaaactgt cacgttagct actgaatcct 540
gggggcgagt gaaatactga aaatccgagt gatgatgttg tgaatacggg acacctaatac 600
acacagcttg ctttgctttt acagaaacgt tcctcttttt ctgacgcant ttgaggaccg 660
tggttggtgt gtatgtgtgt acacacgctc tgtctttaat gacagaaaca caaaaaccag 720
ctggccttgc agacggcttt tctaactcac aagtcttccc tgagacagac taacctgaaa 780
gctttgccta acagtagctt gtagagatcc agtgcacgcc gatgctgcta aactcagtgc 840
ctgagcccg gcttcgacgc ccagccgcag tgcctgaagg ccacctcca aaggagcacg 900
ttgccttttc aaactcccg ggcgatttcc taagagcccc tagtccaagc ctctcagatg 960
aagctgagga gccgtgccta ggatcccttc ccagctctga ggacgggctg cagagctctg 1020
caggtgtgga ttcaccttac gcccctacag caggctcagc ccttcccacc ctgccccatg 1080
cccagcagca caacacggag tagnacagga tgcccacggg gactgccgct ccgtccgtgc 1140
acacacagcg gtgctcttct ccccttagcc acccactgcc caaccaacg gcaaagacac 1200
agaaaccagg tccccttgca gayggctctc ccattcttct gcaagtcatt tgctcacaca 1260
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aagctggcaa ggccacttag cagagctttt gttaaatggc cccagctgct tgggcgagct 1380
aaacagtgga ctttttcggg gaaccacacg acgctggnag gaattcttga tttnttccaa 1440
attgccgggt ccaacatgg                                     1459
```

<210> 98

<211> 879

<212> DNA

<213> Homo sapiens

<400> 98

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ggcacagctt tgtggacatt acccagaagc cacagcctcc aaggggcca cccaaaatgg 60
actggaaatg gccattcgac ttctttccct tcaaagtggc attcagcaga ggagtattct 120
ctcaaaaatg ctacgtctct cccatcctta tcctgtgcct cttactactt ggagtcttca 180
acctagagac tatgtgsaag aaaagaaaat aatcagattt cagttttccc tatgagaaac 240
tctgaggcag ccacttatct tggctaaata gaacctcacc tgctcatgac cagagagcat 300
ttaggataat agaggaccta actgaaggaa tccttggtata tgaaaggagt tattttagaa 360
aagcaataaa aatattttat tcatcatagc tctctgcttt gggctctgca ggccaccaga 420
tacacatgag gccctactt ctcaagctgg gaaggccaag agccttcctt cagcctttct 480
ggttatgtta cacctagctg aatgtttaca aggtctggat ccactcagccc tcaggcacag 540
ttgggccaag cagaaagaga gaaacacttc tgctgtcacc ttgaatgaac tcaggaatag 600
cttccctctg gactgtagag gagctaactg tttggaacag aaaactgctg gctgttgatt 660
ttgtctgggt cctttgcaa catctgggca caccctttgc ccagacacga gtggggaaag 720
cagttctttc tcctcagttt ccaaagtaaa tggggaatcc cagctttctt ttctactagc 780
aaatgaccct accatttatt tctgcctttt tcttccgctt attgtgagga aaaataaaac 840
tggttgagag ctttggtgta aaaaaacctg tgccgaatt                                     879
```

<210> 99
<211> 248
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (4)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (9)
<223> n equals a,t,g, or c

<400> 99
ttntttccnc ttcccttttt ttttttttta agtccttcag gaggtattcc agargaaggc 60
attgttgtca tgggagataa cagctccatg catgttattg cccctgaaga ccttccagta 120
aaacgagatg tggaggtaga agacagtgat atttgaccct gatcctatgt aggtctaggc 180
taatgtgtgt gattgtgtct tagtttttaa caaaaaagtt taaaaagtaa aaaaaaaaaa 240
aagaattc 248

<210> 100
<211> 480
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (414)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (473)
<223> n equals a,t,g, or c

<400> 100
accacgcgt ccggccgggg ctgctgtggg agagttcggt tgctgcggcg gggcctgcac 60
gttgactgtg ggaaactcgg aaacaagctc acatcttcct gtgggaaacc ttctagcaac 120
aggatgagtc tgcagtggac tgcagttgcc accttcctct atgcggagggt cttgttgtg 180
ttgcttctct gcattccctt catttctcct aaaagatggc agaagatttt caagtcccgg 240
ctgggtggagt tgtagtgtc ctatggcaac accttctttg tggttctcat tgatcatcct 300
gtgctgttgg tcatcgatgc cgtgcgcgaa attcggaagt atgatgatgt gacggaaaag 360
gtgaacctcc agaacaatcc cggggccatg gagcacttcc acatgaagct ttnccgtgc 420
ccagaggaat ctctaacatt ggctggsttt tcctgstggt gtcctccggt tanaagcccg 480

<210> 101
<211> 453
<212> DNA

<213> Homo sapiens

<400> 101

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gatagtggag aagccgcaga cgaatggagg agctgaggat gctggaagaa gagaaccagg 60
gtggaggaag tgacatgccc tggagacttg tgggaagtgg gttggaggga ggccaggccg 120
gcagcgggag gccctgggag aaatggagag aggtcagcgg agggctggcc tcagccgcgg 180
ctccttgggtg ggtgcctggc ttggcaactg cttagcagg gaggggggag ggcaggggat 240
tacctaatta gagtgggtta gcttagattg gtagctgctg aaactctcgt tgagtcagga 300
rcgggtaaaa ggtaggtggg gtggggagtg kggccccggg gtggggcctg ggcctctgcg 360
tgcaaacccc agcctccctc ttcttcctca ggctttggag cccctgagtt tgagttcaat 420
aaaaacttta tgtggtaaaa aaaaaactct gcc 453
```

<210> 102

<211> 903

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (846)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (875)

<223> n equals a,t,g, or c

<400> 102

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tttataatga acaaattcaa gaaaaaggac tacggaaagt tcaggacatc aaagaagtca 60
ggcaaaactc aycttgaccc ctgttgagg caaaggaacg cagctggaag aaaagatgat 120
ataacagtta acaggatgca gacatggcag aggtttccta aaaatctcat tatctataac 180
catttctata ttacatttg aaaaatctcct ttggagactt agaacctcta aattattgac 240
ttatttttta tataaggatg ctccgatgaa aggtgattac aaaatcatct acattgctgt 300
ctacaaaaca gataatatgg atgtttgatc gcatctcatt gttaactctt tactgatatg 360
tttgtaaata cagaagtgaa atgtggacat aaaatagtta cgctatttgg ttaatgggtac 420
tagacaacat gtaattaatg acattcaaaa atttatggct agtgatata ataaagtaaa 480
attttctttg cagtaaaata tgccctttat tatagaaggg aggatataag gaaccaacag 540
tttgtagtaa aatagctcaa ataatatctt ttattttgat tttaatatct cttatttttg 600
tttattagtg tcttagaaca aaatggcctt atataatgaa gcctagttaa gctgggactg 660
ttttgatctc ttttaattgt tctggacaga tagttgggga tgagagccga ataagggttg 720
cctggaaata actggacact atattaattt ctgctttggg caaataactaa gttctaactt 780
gtcattcctg gtaggaacca agctttatct ttcgagccta gccaatgatc taggagccag 840
atgttnactc cagtggcctt ttggcaattt tgttngtggt ggggtttttt ttttttttaa 900
aag 903
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<210> 103

<211> 1788

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature
<222> (63)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (246)
<223> n equals a,t,g, or c

<400> 103
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tacctagag atttactctg gtgactgcct tttgagttat gggtagtaaa ggtatggctt 180
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<210> 104
<211> 3319
<212> DNA
<213> Homo sapiens

<220>
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<222> (2555)
<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3313)

<223> n equals a,t,g, or c

<400> 104

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actacgacat ccctttattg tcaaccaccc caagggtggc agagtcagca tatatgattc 180
caaaaggcaa tccgggaaga ctaaggagac aagcgtcaac tgggtgtctgg ctgatggcta 240
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<210> 105

<211> 1986

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1227)

<223> n equals a,t,g, or c

<400> 105

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ctgtatgaca gcctagggttc tttgggtgtg ggcaccttat taggcatggt ctacagcattc 180
ctcatctaca ctaacacaga agcactctta gggcgggtcca tccagccaga acaagtacaa 240
cggtcactcg aactcctgga gaatgaccca tcagtaaggg caattcatga tgttaaagcc 300
acagatctgg gattaggtaa agtaagattt aaggcagaag tagatttttra tgggcgagtt 360
gttacaagat catatttggg aaaacaagat ttgaccaaa tgttacaaga aattcaagaa 420
gtgaaaactc ctgaagaact agagaccttt atgcttaaac atggagaaaa tattattgat 480
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tggaacaag tttgtccgtc cactctacaa gaatttcctc tctcctacac tgaagactc 660
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aaaaaa                                     1986

```

```

<210> 106
<211> 591
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (565)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (567)
<223> n equals a,t,g, or c

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```

<220>
<221> misc feature
<222> (583)
<223> n equals a,t,g, or c

```

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<400> 106
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gtgcggtgt ctttttctag aagtgaatgg aaatcttgct cagttggcat ttcaagcagg 180
aaatgaaatg cttgctttta tggcaaagca gcgttaacat ttttcctgtc gtgtagcaga 240
gagtacaaga atcatttcag caaagcagtg actcaccatg agacgttatc tccatggagc 300
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tcatttctgt attttaatta catctcttag aaataaatta tgtttgcacc atagctttct 540
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```

```

<210> 107
<211> 153
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (144)
<223> n equals a,t,g, or c

```

```

<400> 107
tcccccgggc tgccagaatt cggtcagagt gcatccttac ctttggtgcc agctgctggt 60

```

```

gctgccccct ttgatgatga tgacaagatc gttgggggct acawctktga ggagaaattc 120
tgtcccccta ccagggtgtcc ttgnaattct ggc 153

```

<210> 108

<211> 1536

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1482)

<223> n equals a,t,g, or c

<400> 108

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agcagtagca ggaaaaagaag tttgctacga aagactcggc tgcttcagtg atgactcccc 120
atggctcagga attacggaaa gaccctcca tatattgcct tggctcctcaa aagatgtcaa 180
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tggattcata gacaagggag aagaaaactg gctggccaat gtgtgcaaga atctgttcaa 360
ggtggaaaagt gtgaactgta tctgtgtgga ctggaaaggt ggctcccgaa ctggatacac 420
acaagcctcg cagaacatca ggatcgtggg agcagaagtg gcatattttg ttgaatttct 480
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ccacgctgct ggggaggctg gaaggagaac caatgggacc attggacgca tcacagggtt 600
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aaccgtcagg gaggaagttc tgctcaccct cacaccgtgt taggagacta ctgttatttg 1440
accaatgaat tgacttctaa taaaatctag tggatgatgca anaaaaaaaa aaaaaaaaaa 1500
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaagg 1536

```

<210> 109

<211> 512

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (29)

<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (55)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (58)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (60)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (512)
<223> n equals a,t,g, or c

<400> 109
tggaacggtc ccttcgacgc cgcacctgna aacttcaatg ccatgccgcc caagncgncn 60
ggatgacgtg gcacagccaa gaaacagtct gggagaatcg aagttccaac aagtgcccggt 120
ggaccctgcc acatatggac agttctatgg aggcgacagc tacatcattc tgtacaacta 180
ccgccatggt ggccgccagg gcagataatc tataactggc aggggtgcca gtctaccag 240
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cctgtccagg tgagcccagc ccaccscctc tctgggctgc agcctgagcc ttgtccttct 360
cttcaactcat ctgtctgact ctcattccatc cattcgtttg tccatctgtc tgtctgtcca 420
tscatccatc catccatcca tccatccatc catccatcca tssaacagrt attgattcct 480
gggctgactt cgagcttaat atttttttat tn 512

<210> 110
<211> 1455
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (786)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (846)
<223> n equals a,t,g, or c

<400> 110
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ataacacagg gatgaaacct ggctctgsca ctcccaagg tgggtgactt cacttctctg 180
agcctcagtt tcctcttctg agcatgggcc tgaatgagac gtgtgtaaag taccaagcac 240

```
agtggtagc caatggaaga cacgcagyta gccaccagca gtcacacca aagatgcctc 300
tgatttgtga ctctgaaaat tcttgcaaag ctgagaaggt gaaattcctc tggctatatt 360
gttgacaaaa ggccctcctc tgtaagagtg aattgcacgc tcacttgaaa ctatcttgag 420
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aaaaaaaaa aaaaaa 1455
```

<210> 111

<211> 675

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (617)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (647)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (659)

<223> n equals a,t,g, or c

<400> 111

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gtggtttccg cccggcagcc cgcagcccg cggccgccc tctgtctgggt ctccgcccc 60
aggaccgcg gccgagagct ccggagcgcg gcttcccccg ccggctgcgc gatgggctgc 120
gggaactcca ccgccaccag cgcgggccc ggcgaaggcc ctgcaggagc agccaaagat 180
gtaacagaag aatccgtaac agaagatgac aagaggagaa actatggagg agtatatgtt 240
ggcctaccat ctgaagctgt caatatggtg tccagtcaaa caaagacggt tcggaaaaat 300
tagaagaaaa taacatcatg actcaagaat caagagcttg ctcacagttt tggaaagaa 360
ttggctccgt gggacgttgt aatgtgcaca gacatttcca aggaattctt aaacagtcac 420
ccttcccttt tgcatccccc caaatcttaa gtgtatacat aaaaccctgg gtacatattg 480
```

```

ttgtggtaat agaaggggaat tggttaaaca gtacacttgt ttatgggract ttctgtggcc 540
acctacgaaa gacaagttac aamctscakg gaggcygttg ttgccagacc aggggcccgc 600
gcatttttgac aacattncca ccctggccac tcagcacatt tcatggnggg catgccttnc 660
actgaacctt ttgat 675

```

```

<210> 112
<211> 548
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (521)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (545)
<223> n equals a,t,g, or c

```

```

<400> 112
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tttcnttt 548

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<210> 113
<211> 476
<212> DNA
<213> Homo sapiens

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<220>
<221> misc feature
<222> (342)
<223> n equals a,t,g, or c

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<400> 113
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accccaccca gcccgggcag ggctattccc agcagagcag tcagccctac ggacagcaga 180
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tgaatattgc ttttcttttt cttgtttttt ggagacggag tntggtcctg ttgccaggcc 360
tggagtgcag tgggtgctgc tcagcttcac tgcaacatca gcctaccggg ttcaaacgaa 420
tтыtcctgc ctcagcctcc tgagtagctg ggaattacag gtacctgcta accaag 476

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<210> 114
 <211> 1016
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (885)
 <223> n equals a,t,g, or c

<400> 114
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 gtgaacactg gtaccagcag gcccatcatc ctggatccgg ccgaccccac cctcaacgtg 120
 gcagaagggt acagatggga catcgttgct cagagggcct cccagtgcct gaaacaggac 180
 tggtgctatg acaacaggga gaaccccatc tccagctgga acgtgaagag ggcacgagac 240
 atccacttga cagtggagca gaggggttac ccagatttca acctcatcgt gaacccttat 300
 gagcccataa ggaagggttaa agagaaaatc cggagaccag gggctactct ggcctgcagc 360
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 gcttcacact ggggtctgaag cagcagattg aagaccagca ggggcttcct aaaaagcagc 600
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 ttagttttct ctgggagact tctctgtaca tttctgccat gtactcccar aactcatcct 780
 gttcaaycac tttgtcccat tgtctacttg gaaggttccc aggtcttcca ccagttttac 840
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 ggccgagggt ggaggagcgc ttgagccgag gagttcaaga ccagcctggg tattataggg 960
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<210> 115
 <211> 494
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (366)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (426)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (449)
 <223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (490)

<223> n equals a,t,g, or c

<400> 115

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gtcatggact atgatcgagt gggccacaat gagatcatag gagtctgtcg tgtggggatc 180
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atcgcacact ggcactcctt ggtggaggta aagaaatcct tcaaagaggg aaaccctcgg 300
ttgtgatttc attcacgtgg atgctgcaac agaagagact gccacctgga gttaggatgg 360
cagggncgag ctgctagctt cgacagttag agctcgtgcc catttccgaa accacttcca 420
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acgttaaaan gttt 494
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<210> 116

<211> 3236

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (8)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (33)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (51)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2923)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3235)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3236)

<223> n equals a,t,g, or c

<400> 116

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ccttttgnaa aaatcgatcc atttgggtggt gancctttca aagggttcaga nccatttgca 60
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agtgcagcca acaatagcag tattacatcg gtagaaacgt tgaagcaca tgatcctttt 180
gctcctggtg gaacagtgtg tgcagcaagc gattcagcca cagaccctt tgcttctgtt 240
tttgggaatg aatcatattg aggtggattt gctgacttca cacattgtca aaggtcaaca 300
atgaagatcc ttttcgttca gccacatcga gctctgtcag caacgtagtg wttacaaaaa 360
atgtatttga ggaaacatcg gtcaaaagtg aagatgaacc cccagcactg ccaccaaaaga 420
tcggaactcc aacaagaccc tgccctctac cacctgggaa aagatccatc aacaaattgg 480
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ataaagaggc tgatccaagc aattttgcca acttcagtgc ttatccctct gaagaagata 660
tgatcgaatg ggccaagagg gaaagtga gaagaggaaga gcagaggctt gcccgactaa 720
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atcccatcca tatatccaat ttgcaattga gttttgcatg gttctctgat tatgtccatg 3120
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<210> 117

<211> 911

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (25)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (688)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (873)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (910)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (911)

<223> n equals a,t,g, or c

<400> 117

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cagctcctcc aggacctacc gcgtggggct gggccggcac aacctctacg ttgcggagtc 300
cggctcgctg gcagtcagtg tctctaagat tgtggtgcac aaggactgga actccaacca 360
aatctccaaa gggaacgaca ttgccctgct caaactggct aaccccgctt ccctcaccga 420
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agcttcgggt ctgcctcgg ctgcaactac taccacaagc cctccgtctt cagcggggtc 780
tccaattaca tcgactggat caattcgggt attgcaaata actaaccaaa agaagtcctt 840
gggactgttt cagacttgga aaggtcacag aangaaaata atataataaa gtgacaacta 900
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<210> 118
<211> 1977
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (4)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1948)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1958)
<223> n equals a,t,g, or c

<400> 118
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<210> 119

<211> 804

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (99)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (756)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (803)

<223> n equals a,t,g, or c

<400> 119

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actcaaagtg gaaaggatca cagatttttg gtagtttctg ggtctacaag gactttccaa 180
atccaggagc aacgccagtg gcaacgtagt ractcaggcg ggcaccaagg caacggcacc 240
attggtctct gggtagtgt ttaagaatga acacaatcac gttatagtcc atggtccatc 300
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gtgaaacctc cagcatattc ttcacgsaga gatttycatc tattatactt tatcaaagat 720
tggccatgtt cactkggaa atggcatgca aaaacnatca tagaaaaaac ctgcgttact 780
ccatctgacc aattccaaag aana 804

<210> 120

<211> 737

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (707)

<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (713)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (715)
<223> n equals a,t,g, or c

<400> 120
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gggagttaaa ccagcctgcc tcagctgcccaaatgcacagg tgacttcagt ctttctcctg 180
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tgtcagtaaa acagcagact agccctaata gcagtcagaa ccatctcttt cccggtgatt 420
tgaaaacaga tgaaggcatt tatctgcagg tgaagtcctt gacagctgcc tcggttgatg 480
gagcttatcc tacacaggga tgcatgtgct cagtgggtccc cacgctttgt tcttcctcag 540
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agaataccag caggcagaat ggccagtttg cttaagaatg gtgagcctga agctgagtta 660
cataaagaaa ccacagggtcc aggcactgct ggccctcagt ccaacancac atntngtttt 720
aaaaggtgaa cgcaaag 737

<210> 121
<211> 1252
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (65)
<223> n equals a,t,g, or c

<400> 121
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aaagaactga gaactattat caattcttcc tttggagtcc atcttcaatg gaaaggagaa 180
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gagtacagtt  tacatcttca  cggaagtttt  tcacaatttc  yccaataatt  ctatawtttc  1200
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<210> 122

<211> 1848

<212> DNA

<213> Homo sapiens

<400> 122

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<210> 123

<211> 463

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature
 <222> (52)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (59)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (262)
 <223> n equals a,t,g, or c

<400> 123
 ctggtatcat tgagcccaca catggaggaa gcagaactca tcagttcttg gngtttcang 60
 ccatgcctaa cttttccctt gagtgcattg catgttttgt tacaggttgt agagtatttg 120
 cagaaggaaa ccatttctgg ttatttggct ataaaaagtc agcataaaat atgatccaac 180
 taaaagggat taatttttgg catttttgta tatttatgca ttaggtgatg ggacttttaa 240
 aggtttgaat ttattaggac angaactaaa aataaaaagt cactagggga cagttrattt 300
 maatctaaga aaagttaaca cttgggraat tacaagaagt aaaacaagt cactaaatc 360
 atttattagt tgttttttga aagcagtttt atgtataaat aacaaatggt tatatttaac 420
 taaatgtaag gtacgaattt tacatattaa acttttcttc ccc 463

<210> 124
 <211> 350
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (321)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (323)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (341)
 <223> n equals a,t,g, or c

<400> 124
 ggcagagtga tagaagaact tggtagggatc gatagaattr aggctttaca gctgcatgar 60
 aaccgtcaaa ttggccagtc ggcttttraac atcatcgaga agcacttttg tgagaaaacc 120
 tccagaagca acctcctgwa ctcaaagatt aaggaaacag tcaagccaac gaggaaccag 180
 ccgtcgggtc ggggagaaaa aacaacaaaw ttaagcaatg aaaggtttcc aggtcaggaa 240
 cacctggggg ttaggaacag ggcctgcac ccaggttaag cagagagttg atgtcttggt 300
 tttgttttag gagaggggga ntntttggat tagggggggg naatatttac 350

<210> 125
<211> 1584
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (2)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (533)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1466)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1494)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1514)
<223> n equals a,t,g, or c

<400> 125
antgaccacc agcatcaacg tccctgccgc ggcctccaag atctccatgc aggagcttga 60
ggaactgagg aagcagcttg gcagcgtggc cacaggctcc acgctgcagc agtctctgga 120
acttaaaaga aagatgcttc gagacaagca gaacaaaaaa aattcaggcc agcacctccc 180
catcttccca gcatgggtgt atgagagacc tgccctgata ggggatttcc tgattgggtgc 240
tggcatcagc acagacaccg ctttgccgat agsacgttgc ccctggcctc gcaggagtcg 300
gccgtgggtgg aggacctgct gtacgtgctg gtgggcgtgg acgggaggta cgtcagtgc 360
cagcccctgg ctgggaggca gagccgracc ttctcgtgg accccaacct ggacctgtcc 420
atcaggagagc tgggtgcacag gatcctccca gtggccgcca gctactccgc tgtgaccagg 480
ttcattgaag agaagtcttc cttcgagtac gggcagggtga accacgccct ggnngccgcc 540
atgcgcaccc tgggtgaagga gcacctgatt ctggtgtcac agctggagca gctgcacagg 600
cagggcctcc ttctgctgca gaagctctgg ttctacatcc agccagccat gcgcaccatg 660
gacatcctgg cctccctcgc cacctcgttg gacaaaggcg aatgtcttgg ggggtccacg 720
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tgccctgtacc taaccaaggc ggccagtgtc ccctacttcg aggttctgga gaagtggatc 840
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aaggagagga tccaggagga ttacaacgac aagtactggg accagcggta caccatcgtc 960
cagcagcaga tcccgctcct cctgcagaaa atggcggaca agatcctcag cacaggaaaa 1020
tatctaaatg tggtcagaga gtgtggccat gacgtcacct gcccggtggc taaagagatc 1080
atctacacgt taaaagagcg ggcgtatgtg gagcagatcg agaaggcgtt taactacgcc 1140

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agcaagggtgc tgctggactt cctgatggag gagaaggagc tgggtggctca cctcagggtcc 1200
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gaggaggagc tccggaagcc ggtggaggac atcacgcccc ctgccttggg agcgctcctg 1320
gagctggcgc tgcgcatgag cacggccaac actgaccctt tcaaggacga cctcaagatc 1380
gacctgatgc cccatgacct catcactcag ctcttgccgc tcctggccat cgagaccaag 1440
caggagaagg cgatggcgca cgcgancccc acggagctgg cgctgagcgg cctnggaggc 1500
yttcttcttt cgantacatc gtcaagtggc ccctttcggg tcattcatcm aamagggtgcg 1560
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<210> 126

<211> 1304

<212> DNA

<213> Homo sapiens

<400> 126

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cagggcactg agtgattctg gatgggcttc tgacctgggg acaattttaa cagcattaca 60
accgacattt tggttttctt ggggatttta taggccaggg acaaagcaga aagtgcatag 120
aagatgtgat ccactttgcc tgggaagaga agctctttct cctggctgat gaggtgtacc 180
aggacaacgt gtactctcca gattgcagat tccactcctt caagaagggt ctgtacgaga 240
tgggggcccg gtactccagc aacgtggagc tcgcctcctt ccaactccacc tccaagggtc 300
acatgggcca gtgtggttac agaggaggct acatggaggg gatcaacctg caccctgaga 360
tcaagggcca gctggtgaag ctgctgtcgg tgcgcctgtg cccccagtg tctgggcagg 420
ccgccatgga cattgtcgtg aaccccccg tggcaggaga ggagtccttt gagcaattca 480
gccgagagaa ggagtcggtc ctgggtaatc tggccaaaaa agcaaagctg acggaagacc 540
tgtttaacca agtcccagga attcactgca accccttgca gggggccatg tacgccttcc 600
ctcggatctt cattcctgcc aaagctgtgg aggctgctca ggcccatcaa atggctccag 660
acatgttcta ctgcatgaag ctccctggagg agactggcat ctgtgtcgtg cccggcagtg 720
gctttgggca gagggaaggc acttaccact tcaggatgac tatcctccct ccagtggaga 780
agctgaaaac ggtgctgcag aaggtgaaag acttccacat caacttcctg gagaagtacg 840
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caggctgaac tcgcctcccc cgtgactctg cctcgggccc cgcagaggcc gctggtcact 960
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ataaagccct tagcgtgaa aaaaaaaaaa aaaaaaaaaa aaaa 1304

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<210> 127

<211> 901

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (598)

<223> n equals a,t,g, or c

<400> 127

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agcagcgctg ctttttttta cagacactgc ttttcttaca gtcttcgatt ataagcgcca 60
tggctatggc tagtggttaa ttgcttgccg gtgttttaag aaagccagat gcctggattg 120

```

```
gactctgggg tgttctccga gggacacctt catcatacaa actctgtact tcctggaatc 180
gatacttgta ttttcttagt accaagttac gtgcaccaa ttataaaaca cttttttata 240
atatcttctc actgagactc ccagggtctt tactatctcc agaattgtatt tttccttttt 300
ccgtaagact caaaagtaat ataaggctta caaaatctac taaaaagtct ctgcaaaaag 360
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cttttcggta tgatgtgtgc ctgaagacgg ggctagatat tgggagaaac aaagtggag 540
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cggtgaaagt gggagataca ttggatcttc tcattggaga ggataaagaa gcaggaacag 660
agacagttat gcggattctc ttgaaaaaag tgtttgaaga gaagactgaa agtgaaaaat 720
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aaatggattg ctttttagca atagagctgc tttctagtgg taaaggaagg ggtcacctga 840
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a                                                                                      901
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<210> 128

<211> 3287

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (46)

<223> n equals a,t,g, or c

<400> 128

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cttaaacccg ggtcgacccg cccgtccggt gctcctcagg agccangccc cacccttaga 60
aaagatgttt tccatgagga tcgtctgcct ggtcctaagt gtggtgggca cagcatggac 120
tgcagatagt ggtgaaggtg actttctagc tgaaggagga ggcgtgcgtg gcccaagggt 180
tgtgaaaaga catcaatctg cctgcaaaga ttcagactgg cccttctgct ctgatgaaga 240
ctggaactac aaatgccctt ctggctgcag gatgaaaagg ttgattgatg aagtcaatca 300
agattttaca aacagaataa ataagctcaa aaattcacta ttgaatatc agaagaacaa 360
taaggattct cattcggtga ccactaatat aatggaaatt ttgagaggcg atttttcctc 420
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agtcctgaag cgcaaaagtca tagaaaaagt acagcatatc cagcttctgc agaaaaatgt 540
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ttgtcgaggg tcatgcagta gggctttagc tcgtgaagta gatctgaagg actatgaaga 660
tcagcagaag caacttgaac aggtcattgc caaagactta cttccctcta gagataggca 720
acacttacca ctgataaaaa tgaaaccagt tccagacttg gttcccgaa attttaagag 780
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ggagttagag agacctggtg gaaatgagat tactcgagga ggctccacct cttatggaac 900
cggatcagag acggaagacc ccaggaaccc tagcagtgct ggaarctgga actctgggag 960
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ctgatgggtca caaagaagtt accaaagaag tggtgacctc cgaagatggg tctgactgtc 1500
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ccgaggcaat ggatttaggc acattgtctg gcataggtac tctggatggg ttccgccata 1560
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ttaatttgta tccttttcta ttaagatata tttgtcattt tctcttgaat atgtattaaa 3240
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<210> 129

<211> 1682

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (24)

<223> n equals a,t,g, or c

<400> 129

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ctctgccac tttctcccc tgctattga tcccacatag gtcattctg ggtacaccg 120
ctaaaggctt tgggtgcattg cagcgttttc tcccagcagc tgtgtgaaag atgcattttc 180
taagctaagg agaattttct caagagtggc atactcatgc caaatattat tgctctgggc 240
catataggct ggtcttctc cacttaaaa tgggtgtctt gttttgttac ttaaaacagt 300
ctactccagg catccagtcc ttacagacca aggaagagca tagcgatgcc tgttggaaat 360
gcagatgcat tctggccttc tccccgtcc tgaaacattt tctttgagga aggtctcttag 420
aacattagat agtctgtga ggttgttggc ccagctccat acaccagta gaacagtggg 480
acaactcatg cttcatgctg ccaagctgct gtacttcaaa ggaaacagat ctagcacact 540

```

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gctgcacccc tgcttcacaca ctccacactt caccgccgtg cttttctctg acccgcccct 600
ggccttgtaa gactcacgta agctaagtcc aggatgcctg tggcctgcgg cttgattctt 660
cccttttagga ttcagcaagt taatggcttc ctcgctatag aagtgagact ttgacttgat 720
gcctcttggt atatcaaaaa gatattcatc cagaaagtac caaatgttct gaaagacccg 780
ctcttcactc cagttttccc taggggtgtt ctggcagggc gtttttaaaa ggcactctacc 840
tgagttgacg ctaataactg tcaccacctg gaacgtagtt atcggtcggc aggctgaaca 900
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caggacagct tattttgagg caagggtttg gattttggag gaagcagcca gatgaggcgg 1260
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acaacgtata atgggtgggg gatccgatca tgggtgatgta cgggggtgaat tctcttgccg 1620
tgttgcaaat gtgtaaaata aagattatct ggcagaaaaa aaaaaaaaaa aaaaaaaaaa 1680
at

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<210> 130

<211> 300

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (300)

<223> n equals a,t,g, or c

<400> 130

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accacgcgt ccgagtcaca atgccaagcc tgacacctaa gaaataacca gtgagatagg 60
catcccggat gcttcaatgt cggatatggg cacttcttgc tttggcttat aaagtgtggg 120
ggaagtgatg tgtgacactt cctggcagga gctttcagaa ccctagtctt agatcgcgag 180
cggccgctct agaggatcca agcttacgta cgcgtgcatg cgacgtcata gctcttctat 240
agtgtcacct aaattcaatt cactggccgt cgttttacia cgtgactggt tcgaaaaaan 300

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<210> 131

<211> 105

<212> DNA

<213> Homo sapiens

<400> 131

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acagccagcg gggctgcgaa cctgtccatc agcgtgaaat gtgmcagggc gaggacgcct 60
grgacttctt tggccacagg tcactcctgaa ctgcaaacct ggagg

```

<210> 132

<211> 911

<212> DNA

<213> Homo sapiens

<220>
 <221> misc feature
 <222> (63)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (813)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (861)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (885)
 <223> n equals a,t,g, or c

<400> 132
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 aancttcatt cttcaggtac agacagtgtt tgtgtgttcc tgtgtgtggc aactttaaga 120
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<210> 133
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 <213> Homo sapiens

<220>
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 <222> (2657)
 <223> n equals a,t,g, or c

<400> 133
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<210> 134

<211> 1193

<212> DNA

<213> Homo sapiens

<400> 134

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<210> 135

<211> 1945

<212> DNA

<213> Homo sapiens

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<221> misc feature

<222> (72)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1832)

<223> n equals a,t,g, or c

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<220>
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 <222> (1854)
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<220>
 <221> misc feature
 <222> (1918)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1924)
 <223> n equals a,t,g, or c

<400> 135
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<210> 136

<211> 1146

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (130)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (759)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (790)

<223> n equals a,t,g, or c

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<210> 137

<211> 2345

<212> DNA

<213> Homo sapiens

<220>
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<222> (184)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (339)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1805)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1887)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2325)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2339)
<223> n equals a,t,g, or c

<400> 137
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<210> 138

<211> 731

<212> DNA

<213> Homo sapiens

<400> 138

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<210> 139

<211> 757

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (734)

<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (746)
<223> n equals a,t,g, or c

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<210> 140
<211> 663
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (558)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (646)
<223> n equals a,t,g, or c

<400> 140
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gctgggctgg gcttgctgag gtagaggcag cgccaagaag aggcctttgc cgctggctcg 180
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cgg 663

<210> 141
<211> 3935

<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (43)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (68)
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<222> (1010)
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<220>
<221> misc feature
<222> (1595)
<223> n equals a,t,g, or c

<400> 141
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<210> 142

<211> 2212

<212> DNA

<213> Homo sapiens

<400> 142

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taagggctac ggggaagatcc tggaggtgga tctgaagaac ggatatggtt ttgtggagtt 180
tgatgatctg cgtgatgcag atgatgctgt ttatgaactg aatggcaaag acctttgtgg 240
tgagcgagta attgttgagc atgcccgcgg cccacggcga gatggcagtt acggttcttg 300

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tatatgcgtc aggcaggaga agtgacttat gcagatgctc acaagggacg caaaaatgaa 480
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<210> 143

<211> 743

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (412)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (742)

<223> n equals a,t,g, or c

<400> 143

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agccacgcag actccatcct gna 743

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<210> 144

<211> 839

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (768)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (812)

<223> n equals a,t,g, or c

<400> 144

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cctggagcct gatgctagaa gcagctttcg tctttgggtt cttgctgcct cggscctctg 660
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<210> 145

<211> 2907

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2882)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2884)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2903)

<223> n equals a,t,g, or c

<400> 145

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<210> 146

<211> 1837

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (269)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1612)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1757)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1790)

<223> n equals a,t,g, or c

<400> 146

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<210> 147

<211> 1371

<212> DNA

<213> Homo sapiens

<400> 147

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<210> 148

<211> 1757

<212> DNA

<213> Homo sapiens

<400> 148

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<210> 149

<211> 3532

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (3276)

<223> n equals a,t,g, or c

<400> 149

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ccaacacccg ccaagagaag gagcagtgcg ctgtggtcag agatgctgga catcaccatg 480
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111

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<210> 150

<211> 1931

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (311)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (314)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1859)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1897)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1923)

<223> n equals a,t,g, or c

<400> 150

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ttccccccar tcagtattac cctgtgaagc cccttccctc agcagccgcc ttctagttn 1860
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gancgaattt a 1931

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<210> 151

<211> 1631

<212> DNA

<213> Homo sapiens

<400> 151

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cgctcgaaat t

1631

<210> 152

<211> 732

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (729)

<223> n equals a,t,g, or c

<400> 152

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gaagtttctc gcacctgcaa gagagacctg cgtggaatgt cagaagacag tctatccaat 240
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caacaacaaa ctacgtctag gaacatatgc atctttacat ggaagaatct attgtaagcc 360
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cgaatcagna ag 732
```

<210> 153

<211> 494

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (115)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (471)

<223> n equals a,t,g, or c

<400> 153

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atgcagtact ttgtggccaa gaagaaattc cagcaagcgc ggaagcctta cgatgtgcgg 180
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acgcagtggg accagaggyt ggcactcatc accgacatgy ttcaccagtg gtctccttgc 420
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acccagcctg gggg

494

<210> 154

<211> 2441

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (12)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2435)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2437)

<223> n equals a,t,g, or c

<400> 154

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cttggcacaaa gattcttgct gtcagcatat aaaaatgtgt tgtcatttgt atcaattgac 1380

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<210> 155

<211> 2947

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1727)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2109)

<223> n equals a,t,g, or c

<400> 155

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tggatgaggt tcttttttca ggcctacagt caaatctgtg tccagaattt tttgactttt 360
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agctttatga tcctgatgat gttttttaaa cacaataaag ttggatcttc catgttataa 2880
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aaaaaaa
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<210> 156

<211> 666

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (609)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (614)

<223> n equals a,t,g, or c

<220>

<221> misc feature
<222> (638)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (653)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (657)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (664)
<223> n equals a,t,g, or c

<400> 156
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gtggcctatg cagctcctgg cccccggggg atcattatca acctggagaa cggtgagctc 180
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gactgcccac cactccccc acctagccca gaatgctgta ggccactagg cgcaggggca 480
tctctcccct gctccagcgc atctcccggg ctggccacct ccttgaccag catatctgtt 540
ttctgattgc gctcttcaca attaaaggcc tcctgcaaac cttaaaaaaa aaaaaaaaaa 600
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atanct 666

<210> 157
<211> 627
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (144)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (550)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (585)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (624)

<223> n equals a,t,g, or c

<400> 157

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gaggcgggcg tgccagtccc tggacagcta cgacgccatg aatatcttgc ccaagaagag 60
ctggcacgtc cggaacaagg acaatgtcgc ccgctgctcg cgtgacgagg ccagggcccc 120
ggaggaggag aaggagcgtg asgnagggtg ctgctggctc agcaagaggc ccgtacagaa 180
ttcctacgga agaaagccag acatcagaac tcactgcctg agcttgaagc agcagaggcg 240
ggagccccag gttctggccc tgtggacctg ttctggggagc tgctggagga agggaaagga 300
gtgatcagag gcaataaaga gtacgaggaa gaaaagcgac aggagaaaga gaggcaagag 360
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ccttgggtacc agctaccccc agggcgaggg ggccccccgc ccggcccagc cccagatgag 480
aagatcaaga gccgtctgga ccctctgcgg gagatgcaga agcatctggg gaagaagaga 540
cagcacggcn gtgatgaagg cagtcgcagc agaaaggaaa aggangggtc tgagaagcag 600
cgaccaagag agcctccatc cctngga 627
```

<210> 158

<211> 902

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (872)

<223> n equals a,t,g, or c

<400> 158

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cccacgcgtc cggcagggct cccaaaatgg cgagtgaggc tgcggggact cgctgagcag 60
cggaggggga gcgtgcagag ccgctgcggc cctcacagtc cggagcccg ccgtgccgtg 120
ccgtagggaa catgcacttt tccattcccg aaaccgagtc ccgcagcggg gacagcggcg 180
gtcccgctac gtggcctata acattcacgt gaatggagtc ctgcactgtc ggggtgcgcta 240
cagccagctc ctggggctgc acgagcagyt tcggaaggag tatggggcca atgtgcttcc 300
tgcatcctcc ccaaagaagc tttctctctt gactcctgct gaggtagaac agaggagaga 360
gcagtttagag aagtacatgc aagctgttcg gcaagacca ttgcttggga gcagcgagac 420
tttcaacagt ttctgcgtc gggcacaaca ggagacacag cagggtccca cagagggaagt 480
gtccttgga gctgctgctc gcaacgggca gaaagtcttg gtcaacgtgc taacttcaga 540
tcagactgag gatgtcctgg aggtgtagc tgcaaagctg gatcttccag atgacttgat 600
tggtactttt agtctattct tagttcgaga aaaagaggat ggagcctttt cttttgtacg 660
gaagtgtcaa gagtttgagc tgcttatgt gtctgtcacc agccttcgga gtcaagagta 720
taagattgtg ctaaggaaga gttattggga ctctgcctat gatgacgatg tcatggagaa 780
ccgggttgcc ctgaacctgc tttatgctca gacggtatca gatattgagc gtgggtggat 840
cttggtcacc aaggaacagc accggcaact ynaaatctct gcaagagaaa agttctccca 900
at 902
```

<210> 159

<211> 593

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (590)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (592)

<223> n equals a,t,g, or c

<400> 159

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gtggcagcca gatgtggaat gggcacagca gtttggggga gctgttatgt acccaagcaa 180
agaaacagcc cactggaagc ctccacctg gaatgatgtg gaccctccaa aggacacaat 240
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actagtgatg gaattgagtg gggagatggg gcggaagtgt gatcctcaca tcgggctcct 360
gcaccgaggg actgagaagc tcattgaata caagacctat cttcaggccc ttccatactt 420
tgaccgggcta gactatgtgt ccatgatgtg taacgaacag gcctatttct ctagctgtgg 480
agaagtgtgt aaacatccgg sctcctctc gggcacatgg atycgagtg gtgtggagaa 540
atacacgttt gwtgaacaca tcakgctgtg acacacatgc cctggacctn tng 593
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<210> 160

<211> 1847

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1761)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1765)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1818)

<223> n equals a,t,g, or c

<400> 160

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gattatcgag gctcccatgg catggcggtc acgttctttg agtaccgagc gtacaggtca 60
attatcaaag actacttcca ccgtggcgcc aagtggacaa cagctcctaa gccacaatg 120
gctgatgagc tttataacca ggattatccc atccactctg tagaagacag acacaaattg 180
gctgctcagg gaaaatttgt gacaactgag tttgagccat gctttgatgc tgctgacttc 240
attcgagctg gaagagatat ttttgacag agaagccagg ttacaaacta cctaggcatt 300
gaatggatgc gtaggcattt tgctccagac tacagagtg atcatctc ctttaaagat 360
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cccaatccca tgcattatga tgctaccttc aacatcattg gacctggtat tgtgctttcc 420
aaccctgacc gaccatgtca ccagattgat cttttcaaga aagcaggatg gactatcatt 480
actcctccaa caccaatcat cccagacgat catccactct ggatgtcatc caaatggctt 540
tccatgaatg tcttaatgct agatgaaaaa cgtgttatgg tggatgccaa tgaagttcca 600
attcaaaaaga tgtttgaaaa gctgggtatc actaccatta aagttaacat tcgtaatgcc 660
aattccctgg gaggaggctt ccattgctgg acctgcgatg tccggcgccg aggcacccta 720
cagtcctact tggactgaac aggcctgatg gagcttgtgg ctggcctcag atacaccta 780
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aaaaaaaaact aatggaggta aaacctaaat gcgatgtgaa ataattttag tgttgatact 1680
gtatgtgtat ttttattcta ataaactttt gtgttccaga ttgaaaaaaa aaaaaagg 1740
cggccgctct agaggatccc ncganggggc ccaagcttaa cgcgggcatg cgacgtcaaa 1800
gctctctccc caaagtgnag tcgtattata agccagggca cgggccc 1847

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<210> 161

<211> 370

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (363)

<223> n equals a,t,g, or c

<400> 161

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gatgaggact ctgactatga ccaacgggtg gcgctctgag ctgctaattg agtcagccgt 120
aaatctgtga aatgacctgt tctttgcaac tgtatttatc aagaaagtca agcgtcctgt 180
aaaattttaga gcatcttggg ggtgggaggga agtatccctc ttaccttgac ccctactttt 240
ttttatcttc tttacatttc cagtggaaac cccactttta ttttagaata agaaaattaa 300
gctgagaaca tgagtctgtg ctcttggtat aggggcacct agagtctgtg atccaaagcc 360
ggnattttcc 370

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<210> 162

<211> 454

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (183)

<223> n equals a,t,g, or c

<400> 162

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gktagtccct ccttcacgct tgggtcctca ctggattcca atgacagtag cttgccctac 120
ggcttactgc tactgttcaa ctctggacat cttgttctcc ttcgctgaat ccctttacaa 180
cgnccacaac tttcagtgcc ttcattaaaa tgccttcatt tgcactttca gagtagaatc 240
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agacctgtg gtttcggagc catcgaccts ctcatttcca ccgcagargg stggrrgaga 360
ttcagaaaaat cagggcaggg cccaggagaa agttctttca gagcatggct tcagcctggt 420
tactttctgac accagccagg aagaacagac ttct 454
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<210> 163

<211> 1096

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (144)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (182)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1091)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1096)

<223> n equals a,t,g, or c

<400> 163

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ggagagagag agagagagag agctgggttt ccatccatcc cagtcggcaa gagccccatg 60
gtggagcagg ctgtgcagac tggttctgct gacaacctga atgctaaaaa gctgttacct 120
ggcaaggagg caacaggagc gcanctcaac ggtcgtcagg cccagccgag cagcaagacg 180
gncagcgatg tagtccagcc ggcagctgtg caagctcaag ggcagggtgaa tgacgagaac 240
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aaccgtycaa ctaacgttaa ggaaaacaca atcaaatttg aggggtgactt tgatttcgag 360
agtgcaaatg cccagttcaa ccgagaggag cttgacaaa gaaactgaat 420
tttaaagatg acaaggctga saagggggaa gagaaggacc tggctgtggt gaccagagat 480
gccgaagcgc ccgtgagga agaccttctg gggcccaact gctactatga caaatccaag 540
tcgttcttcg acaacatctc ttctgaactc aagaccagct ccaggcggac gacgtgggcc 600
gaagagagga agctcaacac agagacctt ggggtgtcag ggaggtttct tcgtggccgc 660
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agttctcggg gcggattccg aggaggcagg ggcaatggga ccacccgtcg caacccccact 720
tcccacaggg ccgggactgg caggggtgtga ggggtgcagcc aaaggctcct actgaagtgg 780
cgcataactg acgstgtgtg tktcaggacg cgaggaaaac gctgcactta cagggagagg 840
tggtcacttt gtttacggag tttggaagag acccatactg ctacttgtgt tttggactta 900
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cctctttgag gtctctttat ctgtgtttcc tttttagttg cgcatagcct aattctaagg 1020
ttttggtatt ttgcaaaaag gtttctatag tgaaagctga atccttactt tgtgactttt 1080
tttttttttt naaggn 1096
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<210> 164

<211> 2023

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2005)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2016)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2019)

<223> n equals a,t,g, or c

<400> 164

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atgagttcca ggagccggcc cggagcctcc tggaccagga gaactgtaac gcgagccccg 120
agcctggggc ggaggCGGGg gccggggCGg gtgggggCGc cgacggtttc ccggcccygg 180
cctgcagctt ggaggagaag ctgagcctgt gcttccgccc ctCGgatccg ggCGccgagc 240
ccccgaggac ggCGgtCGg cccatcacgg agCGcacctc ctgcaggggg acgagatttg 300
gaatgccctg acagataatt atgggaatgt gatgcctgta gactggaagt catcgcatat 360
taggaccttg cacttgctta ctctgaacct ctCagaaaaa ggggtaagtg acagtgtgct 420
ctttgataca tcagatgatg aagagctgag agaacagctg gatatgcact caatcatcgt 480
ctcctgtgtt aatgatgaac ccctcttcac ggcagaccag gttattgaag aaattgaaga 540
aatgatgcag gaatcaccgg acccagaaga tgatgaaacc cctacacagt cagatCGgct 600
ttcaatgctt tcccaggaaa ttcaaactct caagaggctt agtaccggca gttatgaaga 660
gagagtgaag aggtctctcag tgtctgagtt aaatgaaatc ctggaagaaa ttgagactgc 720
cattaaggag tactctgagg agctggtgca gcagttggct ttacgagatg aactggaggt 780
tgaaaaggaa gtgaaaaaca gctttatttc tgttcttatt gaagtGcaaa acaaacagaa 840
agagcacaaa gaaacagcaa aaaagaaaaa gaaactaaaa aatggcagct ctCagaatgg 900
gaagaatgag agaagtcata tgcccggcac atatttgact acagtcatte cttatgagaa 960
aaaaaacgga ccacgtctg ttgaagatct tcaaataatta acaaaaattc ttygtgccat 1020
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attctgagag ctggctacca ttacccttct tgctattgga aactcagcac atttgaactt 1200
gggtttgatt cagtattaac agatcttgac tacactaatt ctttatatta tagaaccaac 1260
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ggaaatatgg gcactatattt gaattctaga gatgggtttt gttaaactcta ctaataaact 1320
gttctcttag tagattaaga gagagtaata ttaattgtgc atgtgcagtt gtatttctca 1380
ttaactgaca gtatgcccac ttgtttttat ggctttctta tctaaactgc actgatgaac 1440
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ttttttgtga gaattgtcag tgaactatt acctaccagt attgttcaga gagattgaaa 1560
cagaataaac gggctgttct tgaagaagca aaaccagaat atgcattact ttgggttaat 1620
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accactggtc aaattttaac cattaaattg ccattcactt ttagaatctt gtatttaagt 1740
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ttttattcat gcctgtgtgt ttttcttaag tatgaattct agatacagct acttatggat 1920
tcatcaatat catgagcact tttgctggt ccagtcaaat caatggcatt taataaattt 1980
tttaagaagt aaaaaaaaaa aaaanggggg gccgcncnng agg 2023

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<210> 165

<211> 1320

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1158)

<223> n equals a,t,g, or c

<400> 165

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ttcaatggat cccaggggta tcttgaaggc atttcccaag cggcagaaaa ttcagctgta 120
tgcatcatca aaagtacttg caaagattcc taggagggaa gagggagaaag aagcagaagg 180
aggcctgcag tatccctggg attgggaakc ggatggctga saaaatcata gagatcctgg 240
agagcgggca tttgcggaag ctggaccata tcagtgaag cgtgcctgtm ttggagctct 300
tctccaacat ctggggagct gggaccaaga ctgcccagat gtggtaccaa cagggttcc 360
gaagtctgga agacatccgc agccaggcct ccctgacaac ccagcaggcc atcggctgaa 420
gcattacagt gacttcctgg aacgtatgcc caggagggag gctacagaga ttgagcagac 480
agtccagaaa gcagcccagg cctttaactc cgggctgctg tgtgtggcat gtggttcata 540
ccgacgggga aaggcgacct gtggtgatgt cgacgtgctc atcactcacc cagatggcyg 600
gtcccaccgg gktatcttca gccgcctcct tgacagtctt cggcaggaag ggttcctcac 660
agatgacttg gtgagccaag aggagaatgg tcagcaacag aagtacttgg ggtgtgccc 720
gctcccaggg ccagggcggc ggcaccggcg cctggacatc atcgtggtgc cctatagcga 780
gtttgcctgt gccctgctct acttcaccgg ctctgcacac ttcaaccgct ccatgcgagc 840
cctggccaaa accaagggca tgagtctgtc agaacatgcc ctcagcactg ctgtggtccg 900
gaacacccat ggctgcaagg tggggcctgg ccgagtgtg cccactccca ctgagaagga 960
tgtcttcagg ctcttaggcc tcccctaccg agaacctgct gagcgggact ggtgacccat 1020
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ccytccagcc tcagctggct gaacctcgcc gctccaacca ccagcttcct cagcgagcag 1140
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ccagtgtctg cccagccctc tcccagacag gaacaaggct gscacccctt ctamctyamc 1260
actgccctc cgaaaraatt tttgcaaatk gggcccttgc cccattttta aagcaaggga 1320

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<210> 166

<211> 1205

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1027)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1200)

<223> n equals a,t,g, or c

<400> 166

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gggcactgca ccttacccca cccatccatg ccagcacttc tgcactacgg ccattctcct 60
cttggggcgct cctcagcctc actgtgacct ttctgccaga gctcccagcc aggcctactc 120
tgctgagggtg gcgcttcctg ctaaggggccc ttctctgccc tttctgccct ccttcccata 180
ccacatgctg agccgccaca aagaccaaag aagtgatggc tttctctgt cccctgctgc 240
tctgagggga gaggggtggg tctcctgagc cactcagatg ggaaagtccc ttactcggcc 300
cctccctccc cagcagcccc aagctttaca ctggatgcag cgatcaaccc accactcacc 360
aggcctctcc tcccctctgc ccccggtctt tagctccagc tgctccaggt agttgggttca 420
tccttcccc tctctccctc cctgcttccc cttcagtgtc tacttggttc cagccctcca 480
gctgcagccc ctggggaaaa gcagcctccc ttctcctctc cctccactcc ctgctccct 540
ccctcagccc ctgtctctgc caggtgcctc ctctcagtca ggcttcagag cagccctgga 600
gacaggaggg ccatgttaaa agctttttca cagttttaag aagacaagtg gagggtgagg 660
atagtgggtg ggggtctggc accatctcat tgctttaatc ccagcaacac aggtggcagc 720
ttctccccct tccttcccac cccagtcctt ctcccaccc ctctcttcta gcttggtaat 780
gaagtatat tattggtgaa ggaaacagct gctgctgctt ctctgctgc tgggacctgc 840
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ctcga 1205
```

<210> 167

<211> 1413

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1376)

<223> n equals a,t,g, or c

<400> 167

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cttatcaaca tctacaggat gtggacattg agccttatgt aagcaaatg ttaggtactg 120
gaaaactggg cttctctttt gtgagaatta cagctcttat ggtgtcttgt aatcgtttgt 180
gggtggggac aggaaatggt gtcattatct ccatccatt gacagaaacc gtaatcctcc 240
accagggacg ttactgggg ctgagggcaa ataaacctc aggtgtacca ggaaatcgte 300
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```

ctggaagtgt aatccgtgta tatggtgatg aaaacagtga taaagtgact ccagggacat 360
ttataacccta ttgttcaatg gcacatgcac agctttgctt ccatgggcac cgggatgctg 420
tgaaattctt tgtggcagtc ccaggtcaag tcatcagccc acaaagtagc agtagtggca 480
cggatctgac gggtgacaaa gcagggccat ctgcacagga gcctggtagt cagacgccct 540
tgaagtctat gcttgtcatc agtggaggag agggctacat cgacttccga atgggtgatg 600
aaggtggaga atcagaactt cttggagagg atcttccact tgaaccttct gtcaccaaag 660
cagaaaggag tcacttgata gtgtggcaag tgatgtatgg caatgagtga gcccattgga 720
aacaggtgga gatggggaag ccgtctcttc tgcattggtt attttccctc tatcctttta 780
tttaatgctc ttttgtgaga taagtttcac cacataatgt gtgagcattt tttcctgtta 840
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accagtgtta taggtaactt cagtatatta tgaacaaatc aaagaatgtt tacttccctg 960
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atggtatata aaactttgtt ttcattcagat ttgggggggt tttatatata agaaattaag 1320
actacactat ttaataaac gtttcctgtt tctgacttaa aaaaaaaaaa aaaaanctcc 1380
gggggggggc ccgggaccca ttggggccct tgg                                     1413

```

<210> 168

<211> 1228

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1178)

<223> n equals a,t,g, or c

<400> 168

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aattcggcac gagctttcca agttgtagtg ttgttgtttt cagcctgctg ctgctgctgc 60
tggtgcggct aggggaaccg tcgtggggaa ggatgggtgt cgaaaaatgt gaaaagaaac 120
ttggtactgt tatcactcca gatacatgga aagatgggtgc taggaatacc acagaaagtg 180
gtggaagaaa gctgaatgaa aataaagctt tgacttcaaa aaaagcaaga tttgatccat 240
atggaaagaa taagttctcc acttgtagaa tttgtaaaag ttctgtgcac caaccagggt 300
ctcattactg ccagggtgtg gcctacaaaa aaggcatctg tgcgatgtgt ggaaaaaagg 360
ttttggatac caaaaactac aagcaaacat ctgtctagat gtattgatgg aatttctggc 420
tttctaaatg attttacttt ctgccttgaa ttttcaaggc atagatgtca acttacagaa 480
taacatgttt taagataatt aagtttaaac cagagaatgt gattgttact cathttgtct 540
tcatgttcta aacagcaaca gtgtaactag tcttttgktg taaatgggta ttttccttat 600
aagaatttta agaactaagt ggcaaatcc atgaaaaatat ttcycrgttc tgkatgcact 660
tttatttaac attattcata taattctccc cccaccactt tatttataga tactgcaaaa 720
gtgagaagga gataatagat actttgctct gaatttggca tccagagtta acatttctcc 780
cctcactccc ttgctgggtg catagttatt agaatcagca gcctcttaac taattgcggt 840
ttcataggat atataaatgt ttcaagccat tattgctgaa tggttcttta gttattaacc 900
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gtgccagttt ctttaatatg tgaccaagaa cacaaggagc atccatatgg ccaataaaat 1020
acattgaatt ttagaaaaac atattacttt gaattcaaat tgtcatgaaa accagaacag 1080
tgttgttcca tggtgcatgt aatgaaaata aatccctgct ctgagaaaag ctctttgaag 1140
caaaaaccaa actttttttt ttttttttta cctcctgnct tgccccctaa aagaaatmma 1200

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tagagcaaac atcttgactc tccctttt

1228

<210> 169

<211> 1925

<212> DNA

<213> Homo sapiens

<400> 169

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aaaagttgat aatacatacc catgataaga attcatattt tctctttctt tgtctcttca 180
tacagaagca agttcgagca gagaagggtta gcagttacag cacttaaaag tttaggattg 240
agggtttttg gttgggtttt ttgttttttt gttttttcca ttttctactg ttgctgaaca 300
ttgatttagt cttccaaaat ggacatcact agtaagtga ctgaatactg aaataygctg 360
attggcaagc atatatctgt agctagaatt ttttaaccg taattccaga atttaaaaag 420
gtaagagatc tgctttttga tagaggcctt ttaaaaagac tatataacat ttctatttgg 480
ctgtttatgt gaatgcycag ggaatttgga catgtgtttt atacagaagt ggctttttat 540
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aagtgttaaa cttgctcaag caaatgggag taggagatag gctgaaaata gagattgcta 720
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cccagttatg taacttttct ttgaagttct aaaggataat tgaaaataaa gtagtmtggc 1140
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tatgtgact ttgtaaagt taatgtccgt ttaacagttg cttgtttatt tgtgtaaacc 1500
tagctagtaa atattgatga tgttcagggc cactgacttg cacagccctt ggagcactat 1560
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aaatactttt gttaccacag gttcattgct gtcatttaga caaaattaat gtactgtgat 1680
attttccyac tcttaagatg atgttgccca gcctagtact gtcagaaatt cagttctgat 1740
gtctgtgtgt gcaagatatt aatgtggtcc ctgtaagaaa taccagagtt ggtcatgatt 1800
tactaaggag atgtaatat ttctttgacc tgttaggaat ataacttgtg tcttgatttg 1860
ttgcacatca tattttttgc aacattaatg aatttaata aattaattgg aacctgtgc 1920
cgaat 1925

<210> 170

<211> 1558

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1535)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1536)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1537)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1551)

<223> n equals a,t,g, or c

<400> 170

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gcctgtgagc aaacgaggcc cctgagagct ccacctagtt cacaggataa aatcccacag 120
cagaactcgg agtcagcaat ggctaagccc cagggtggttg tagctcctgt attaatgtct 180
aagctgtctg tgaatgcccc tgaattttac ccttcagggtt attcttccag ttacacagaa 240
tcctatgagg atggttggtga ggattatcct actctatcag aatatgttca ggattttttg 300
aatcatctta cagagcagcc tggcagtttt gaaactgaaa ttgaacagtt tgcagagacc 360
ctgaatgggt gtgttacaac agatgatgct ttgcaagaac ttgtggaaact catctatcaa 420
caggccacat ctatcccaaa tttctcttat atgggagctc gcctgtgtaa ttacctgtcc 480
catcatctga caattagccc acagagtggc aacttccgcc aattgctact tcaaatgtgt 540
cggactgaat atgaagttaa agatcaagct gcaaaagggg atgaagttaac tcgaaaacga 600
tttcatgcat ttgtactctt tctgggagaa ctttatctta acctggagat caagggaaca 660
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cagagaattg aaaacgttgt cctagatgca aactgcagta gagatgtaaa acagatgctc 900
ttgaagcttg tagaactccg gtcaagtaac tggggcagag tccatgcaac ttcaacatat 960
agagaagcaa caccagaaaa tgatcctaac tactttatga atgaaccaac attttataca 1020
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cttgaaagag aggacttttt tccagattat gaagaaaatg gaacagattt atccggggct 1140
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tttgtttaac actatctgcc aaaataaact ttattcccta taacttaaaa tgtgtatata 1440
tatataatag ttatttatgt acagttaatt ctactgtttt ggctgcaata aaatcgattt 1500
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<210> 171

<211> 1402

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1370)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1400)

<223> n equals a,t,g, or c

<400> 171

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ccagctgcag cacaatgaga tcatccccag tgrggccatg gccaagctcc ggcagaaaaa 120
tccccgggca gtgcggcagg cggaggaggt tcggggtctg gagcatctgc acatggatgt 180
cgctgtcaac ttcagccagg gggccctgct gagcccccat ctccacaacg tgtgtgccga 240
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caggcaggtg ggggaccgcg ggaagccctg cgtctgccac tatggcctga gcctggcctg 420
gtaccctgc atgctcaagt actgccacag ccgcgaccgg cccacgccct acaagtgtgg 480
catccgcagc tgccagaaga gctacagctt cgacttctac gtgccccaga ggcagctgtg 540
tctctgggat gaggatccct acccaggcta ggggtgggagc aacctggcgg gtggctgtc 600
tgggcccact gctcttcacc agccactaga gggggtggca acccccacct gaggccttat 660
ttccctccct cccactccc ctggccctag agcctgggccc cctctggccc catctcacat 720
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tactcccaa caaggggtc actatcccca aagaaggagc tgttggggac ccacgacgca 1080
gcccctgtac tggattacag catattctca tctctggccc cgaggctgcc tgtggggcga 1140
gtggagacct cccatcactg agacagatca cagaccacga gtgcctttcc cggacctgga 1200
cgttgccctc agagcaggca ccagctcttt cctctcttag acagaaatat ttttgaagg 1260
ttctggggca gggaggggagc atgaagtacg aggaaaactt gaattccaga tttttaatgc 1320
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aaaaaaaaaa aaaggggggn cg                                     1402
```

<210> 172

<211> 490

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (469)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (489)

<223> n equals a,t,g, or c

<400> 172

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gcttccctct ggcaatggct cccttcagca cttctgcttt ccactccaat tcacacagga 60
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gaattgctcg aactcagggg gtggaggttg cagtgaagttg agattgtgcc attgcactcc 120
agcctgggca acagagcaag actctgtctc agggaaaaaa aaaaaaaaaa aagaaaagca 180
acatagtggtg gtttctcaat ctgtcctcgg ctgcccttct cttttgttga tgggaccttg 240
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agcaccacgc cacgaattcc cttccctaag catctcctgt tcctgactgc tccatgaatt 420
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<210> 173

<211> 1437

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (198)

<223> n equals a,t,g, or c

<400> 173

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<210> 174

<211> 1815

<212> DNA

<213> Homo sapiens

<400> 174

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<210> 175

<211> 971

<212> DNA

<213> Homo sapiens

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<223> n equals a,t,g, or c

<220>

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<222> (27)

<223> n equals a,t,g, or c

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<222> (961)

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<220>

<221> misc feature

<222> (965)

<223> n equals a,t,g, or c

<400> 175

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<211> 1622

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1394)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1444)

<223> n equals a,t,g, or c

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<221> misc feature

<222> (1606)

<223> n equals a,t,g, or c

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<221> misc feature

<222> (1613)

<223> n equals a,t,g, or c

<220>

<221> misc feature
 <222> (1618)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1622)
 <223> n equals a,t,g, or c

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<210> 177
 <211> 340
 <212> DNA
 <213> Homo sapiens

<400> 177
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<210> 178
 <211> 616
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (604)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (610)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (613)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (615)
 <223> n equals a,t,g, or c

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 tgcngtgaan gcncnc 616

<210> 179
 <211> 2067
 <212> DNA
 <213> Homo sapiens

<400> 179
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<210> 180

<211> 1827

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1524)

<223> n equals a,t,g, or c

<400> 180

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<210> 181

<211> 2026

<212> DNA

<213> Homo sapiens

<400> 181

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gtgacttcat ctaaaggcag cattaggtac tgcattgaaa taggtcatta acttgaaact 1680
cttatcaaaa tatattttac cagtttccag aatttccagt acaggaccgc ctgaagagag 1740
agccattggt caattccaat tcagtgtgag tgacaaaagt aaatttagaa gtgaagtgtg 1800
ctatttgata ttttaactctt tattaatatct ttcttttaaat ttctgcctgt cagtctatat 1860
tgctgttttt attatacatc agtttctttg tataacttgt gagttccatg tgttttgttt 1920
ttattatgta aatatcatta taaataaact tatttataaa tcaaaaaaaaa aaaaaaaaaa 1980
ctcgaggggg gcccgggtacc caattcgccg gatagtgatc gtaaac 2026

```

<210> 182

<211> 456

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (419)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (450)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (453)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (455)

<223> n equals a,t,g, or c

<400> 182

```

tggtactaaa catatccatt cacccttagt ttatgtgcc aacctatttt atattacatt 60
cccaaattat atatagctct gtttctaagc tctattctgc tctattggac tattgtctgt 120
tcttatgcta atcctacctt attttaagt ctgtgacttt agtcatagga cataccttga 180
agaataggaa ctcccttact gtttaaacag ttcatttggc tatatgtgga attttattct 240
ttctatataa actttaaggt ttgtttatag agttccttaa aaatttgaty ggaattgtat 300
aaattaatag ggagaaagtt gatatcttta tgatatttgt tccatccaag agcatggaat 360
gtctgtattt taaattatca tctatattgg ttattaggtc ttacatattc atgattagnt 420
cctaggttct ttataggatt agggttttgn tgntng 456

```

<210> 183

<211> 481

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (3)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (4)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (463)

<223> n equals a,t,g, or c

<400> 183

```
ttnttttctc ccagacagtg tccgccgtgt gcctgcccag cgccgacgac gacttccccg 60
cggggacact gtgtgccacc acaggytggg gcaagaccaa gtacaacgcc aacaagaccc 120
ctgacaagyt gcagcaggca gccctgcccc tcctgtccaa tgccgaatgc aagaagtcc 180
ggggcaggag gatcaccgac gtgatgatct gtgccggggc cagtggcgtc tcctcctgca 240
tgggcgactc tggcgggccc ctggtctgcc aaaaggatgg agcctggacc ctggtgggca 300
ttgtgtcctg gggcagcgac acctgctcca cctccagccc tggcgtgtac gcccggtgca 360
ccaagctcat accttgggtg cagaagatcc tggctgccaa ctgagcccgc ggctccctcc 420
gacctgtctc cccacagagc ctcagtaaac ccatggaaca canaaaaaaaa aaaaaaaaaa 480
a 481
```

<210> 184

<211> 496

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (60)

<223> n equals a,t,g, or c

<400> 184

```
tggggatacc accaggtgag gaccactctg gaaactggtg gatcccccg gactgacagn 60
aatcgggaca gaagaccctc tggctcctct cctgcttctc ccttgtgggg gccgcctttg 120
gctgcggggt ccccgccatc caccctgtgc tcagcggcct gtccaggatc gtraatgggg 180
aggacgccgt ccccggtctc tggccctggc aggtgtccct gcaggacaaa accggcttcc 240
acttctgcgg gggctccctc atcagcgagg actgggtggg caccgctgcc cactgcgggg 300
tcaggacctc cgacgtggtc gtggtgggg agtttracca gggctctgac gaggagaaca 360
tccaggtcct gaagatcgcc aaggtcttca agaaccctca gttcagcatt ctgaccgtga 420
acaatgacat camcctgtg aagstggcca camctgcccc sttytyccag acagtgtccg 480
ccgwtgcct gcccg 496
```

<210> 185

<211> 1307

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (4)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (7)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (383)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1271)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1275)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1279)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1294)

<223> n equals a,t,g, or c

<400> 185

gtcngantcc cgggtcgacc cacgcgtccg ccggaagaag aggaactggg cctgaaaggt 60
accggtgacc gctactgctg ccggtgtttg cgtgtggcag ggagccaggc ctggcgagcg 120
gggtgtgtcg cgatgccgga gctggcagtg cagaaggtgg tgggccaccc cctggtgctg 180
ctcagtggtg tggatcattt caaccgaatc ggcaaggttg gaaaccagaa gcgtgttgtt 240
ggtgtgcttt tggggtcatg gcaaaagaaa gtacttgatg tatcgaacag ttttgcatc 300
ctttgatgaa gatgacaaaag acgattctgt atggttttta gaccatgatt atttgaaaa 360
catgtatgga atgtttaaga aantcaatgc cagggaaaga atagtgggt ggtaccacac 420
aggccctaaa ctacacaaga atgacattgc catcaacgaa ctcataaaaa gatactgtcc 480
taattccgta ttggtcatca ttgatgtgaa gccgaaggac ctagggtctg ctacagaagc 540
gtacatttca gtggaagaag tccatgatga tggaaactcca acctcgaaaa catttgaaca 600
cgtgaccagt gaaattggag cagaggaagc tgaggaagtt ggagttgaac acttggtacg 660
agatatcaaa gacacgacgg tgggcactct gtcccagcgg atcacaaacc aggtccatgg 720
tttgaaggga ctgaactcca agcttctgga tatcaggagc tacctggaaa aagtcgccac 780

```

aggcaagctg cccatcaacc accagatcat ctaccagctg caggacgtct tcaacctgct 840
gccagatgtc agcctgcagg agttcgtcaa ggccttttac ctgaagacca atgaccagat 900
ggtggtagtg tacttggcct cgctgatccg ttccgtggtc gccctgcaca acctcatcaa 960
caacaagatt gccaacccggg atgcagagaa gaaagaaggg caggagaaaag aagagagcaa 1020
aaaggatagg aaagaggaca aggagaaaga taaagataag gaaaagagtg atgtaaagaa 1080
agaggagaaa aaggagaaaa agtaaaacat gtattaaata gcttttttaa tttgtaaatt 1140
aaaatcttac aaactaaatc agtgtgctgc tagagggttc tttttcactt gacatgctta 1200
ttagaaagct gacccamcaa gagctctctg cctccgggtca ctcttgctgt ggtgctacgt 1260
ggaagtgaat ngrgnctgnt ctcaaactctg actncagttt cgtctgt 1307

```

<210> 186

<211> 449

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (402)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (437)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (440)

<223> n equals a,t,g, or c

<400> 186

```

gcggacgcgt gggcttctgt actgccaggt ccgggtcggc ggctgcactg cggatgagac 60
cgggtgcgact catgaaggtg ttctgcaccc gcagataccc gccgaggctg tgagggtggag 120
cagtgggact cggatgagcc catccctgcc aaggagctag agcgagggtg ggcgggggcc 180
cacggcctgc tctgcctcct ctccgaccac gtggacaaga ggatcctgga tgctgcaggg 240
gccaatctca aagtcacag caccatgtct gtgggcatcg accacttggc tttggatgaa 300
atcaagaagc gtgggatccg agttggctac amcccagatg tcctgacaga tamcamcgcc 360
gaactcgag tctccctgct amttamcamc tgccgccggt tnccggaggc atccgaggaa 420
gtgaagaatg gtggctngan ctctgtgaa 449

```

<210> 187

<211> 951

<212> DNA

<213> Homo sapiens

<400> 187

```

actataggga aagctggtac gcctgcaggt accgggtccgg aattcccggg tcgaccacg 60
cgtccgcagc aatccggttg ttctcggtta gactgggtcg gggccagggg agaagcagtc 120
accctgtgt agagggttcc cgctgtgctt ctgagcagtt gctttgttca gaagtgttag 180
gagggtcaga ttgtgccata attgttatta aagagaaaac acgcccacct tcctttctcc 240
cctgctggcc attgttcatt gagttttact gagggcagcc tttgtggaag tcagggaggt 300

```

```

tgccaaaggc ctgtagatgc ctcttgacaa ggtcttgatt cctggttttc tagcaccat 360
ttgcattttg gtcttcagca caaagccttg ttccctgtgg ccggacttct gggcaataag 420
actggggagt gactgttgag cagtctgctg tcaggagaga tggctgaaaa ggtgatcatc 480
ttggtgctaa acaagtaaga ggcaactgcc ctgtttttgt ttgttttgag gcacaatgaa 540
actttagcca aactctgcaa gaggggtcca tctcctgcca tggccagggtg tgagagacca 600
aaccgagaaa acagcatact ctatcactta agccttggggt agaatgggaa ttcttttacc 660
tgggtaaacg ttttaacaaa aaaatggaac ttaacttcgg tttggactgt ggtcgtgctg 720
aggcaggagt ggggttgccc tcttggggct gaatctccag gcctcacgag gtccctgtgg 780
ggatgctgct atttctaaga tgcaaattgc acatttccta gattttgtat ctgtggattt 840
ggataaggga ggggaacacg gacaaattgc ttgtacaatt tgaaatgggc ctcaatggta 900
cttcaaacct tttgattatt cctaaataaa aacataaata taaaaaaaaa a 951

```

<210> 188

<211> 381

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (293)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (350)

<223> n equals a,t,g, or c

<400> 188

```

ggcacgagca gctccgcgcc gcgcggaacc caccgagccc gcgctcagac gccccagctc 60
cgctgacagg ccgctcgcgc cgggtccttc ctcttcycca rgtgcaggca gagccccrg 120
agmcertggcc agcccttccs gcagctcyga agccactggc aagccccgag gcagggatgg 180
csgggccagg agggaggagg asgacgtcyc tcccgaagar aagaggctgc ggctcttgct 240
ggagrsgggg agcgcacagc ccsaggactg cgaggacggg gaggacgcgc cngggccggg 300
cagggwgwgw accggcaccc agacagggtg cgacggcaga ggagtaagtn acgcgggcgc 360
gggggtccgg ggggtgccggg t 381

```

<210> 189

<211> 1309

<212> DNA

<213> Homo sapiens

<400> 189

```

gggcgggctg cagtgttaat gggaggggta actggggact cgagctcagt gatgacgcga 60
ctctcacgtg accaggagtc gacgtgtgca gaagtcctta tagtccaggg cctgtttccc 120
tgtagcagct cttatttgct ggagaaggag aaaagtcccc aagatccttt caggatattt 180
ggtttttttg gcgcgacaca aatcgagggtg agggaaagaga gaggaaaatc ccctgaatcc 240
ctgcaggatt aatttattca aaaaggaaat aaaaaatact caatatgcaa aagtcttggtg 300
aagaaaaatga gggaaaacca cagaacatgc caaaggccga ggaagatcgc cctttggagg 360
atgtaccaca ggaggcagaa ggaaatcctc aaccttccga agaaggcgta agcagggag 420
cagaagggaaa ccccgagaga gggccgaatc agcctggcca gggattttaa gaggacacac 480
ccgttaggca tttggaccct gaagaaatga taaggaggat agatgagctt gaaaggctta 540

```

```

gggaagagat aagaagagta agaaacaagt ttgtgatgat gcattggaag caaagacatt 600
cacgcagccg tccttatcct gtgtgcttta ggccttgaat tcatttttgc ctaatatata 660
aatctggccc cagctttctt tctgttagca ttttctgatg tatctttgac ctccatttta 720
cttttaataca tctgatgaaa tttkgtttta ggtaatttcc ttggtaccag catctcattg 780
gatttttgat ttgacccat tttccaggtc tatttttcaa ttggaaactt tcacacattt 840
gcatgggaat atgttcattc catgttgtaa agtaaaacat aacagggtat ggcaaagcag 900
catatttaat atcagctcac atatgtagga taaaattcca aactttgtgt gtgtgcgtgt 960
gtgtatacat acatccatat aacatatatc acaaacttaa ccaagcttat ttctgtgtgg 1020
tgtgaaattt tatttgtttt cttctttttg ttctttttgc ttatatgtac tttttaatga 1080
acacgtgtct cacacacaaa aagaattaag gatttttttt acaagtaaga gtcaaataat 1140
ttgcaaccag cttatgaggg caatgggggc acctaaactc ttgatgaaag aactttaaaa 1200
agaaatgtaa acctcaaatt acctctggat ctcttagcca gaggaataaa ctggcaatta 1260
ttacagataa aaaaaaaaaa aaaaaactcg tgccgaattc ggcacgagc 1309

```

<210> 190

<211> 1899

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (776)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1026)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1887)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1895)

<223> n equals a,t,g, or c

<400> 190

```

gcgaggcgac cgctgaggcc gcggagagt acggcgggcc ggccgacgga gccggggcg 60
ggcggcggct cagcgaagga gcgcgcgggc ggtctggccc cgccccctcc ccgcccgcct 120
tcccggtgac cttcaggggc cgggtggcgg gcgcaggccc ctgcggcggc ggcgggatgt 180
tcgtgcagga ggagaagatc ttgcggggca aggtgctgcg gctgcacatc tgcgcgtccg 240
acggcgccga gtggctggag gagggcaccg aggacacctc ggtggagaag ctcaaggagc 300
gctgcctcaa gcaactgtgt catgggagct tagaagatcc caaaagtata acccatcata 360
aattaatcca cgctgcctca gagaggggtc tgagtgatgc caggaccatc ctggaagaga 420
acatccagga ccaagatgtc ctattattga taaaaaagcg tgctccatca ccacttccca 480
agatggctga tgtctcagca gaagaaaaga aaaaaacaaga ccagaaagct ccagataaag 540
aggccatact gcgggcccacc gcmaacctgc cctcctacaa catggaccgg gccgcggtcc 600
agaccaacat gagagacttc cagacagaac tccggaagat actggtgtct ctcatcgagg 660

```

```

tggcgagaa gctgttagcg ctgaaccag atgcggtgga attgtttaag aaggcgaatg 720
caatgctgga cgaggacgag gatgagcgtg tggacgaggc tgcctgagg cagctncacg 780
gagatgggct ttccggagaa cagagccacc aaggcccttc agctgaacca catgtcgggtg 840
cctcaggcca tggagtggct aattgaacac gcagaagacc cgaccataga cagcctctt 900
cctggccaag ctccccaga ggccgagggg gccacagcag ctgcctccga ggctgccgcg 960
ggagccagcg ccaccgatga ggaggccaga gatgagctga cggaaatctt caagaagatc 1020
cggagnaaaa gggagtttcg ggctgatgct cgggcccgtca tttccctgat ggagatgggg 1080
ttcgacgaga aagaggtgat agatgccctc agagtgaaca acaaccagca gaatgccgcg 1140
tgcgagtggc tgcgtgggga ccggaagccc tctccggagg agctggacaa gggcatcgac 1200
cccagacgtc ctctctttca ggccatcctg gataacccgg tgggtgcagct gggcctgacc 1260
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tggatgaatg atccagaaac ggggcctgtc atgctgcaga tctctagaat cttccagaca 1380
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gcggcccagc accgggcaga gtggacctca cctggaaact caccttcagc gcctcagccc 1500
tggactgtta gagtgctgc agckgctcct gctctctgat cttattgctt ataaactttg 1560
gtgacggtag tgtgtaaggc cgtattttta gcatctgaca ggtgtttaca aaaaagtgg 1620
tgtcgactg ggaagtggag tgatggcctc gtctccagtg ctctctggg ctcttgagtt 1680
gctgcttgaa ttgccgtgta gacatttgct tggagagtcc acttgttatt tgacggaggt 1740
aggtttcaac ccagagttaa tgtcaagcat gctaatttaa ctagtactc acagatgact 1800
tttctttaat aaagtccctt ttcttaaaaa aaaaaaaaaa aaaaaaaaaa 1860
aaaaaaaaa aaaaaaaaaa aaaaaanggg ggggncccc 1899

```

<210> 191

<211> 2490

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2484)

<223> n equals a,t,g, or c

<400> 191

```

tcgaccacg cgtccgtcca rgtgaagggr gaaaaaaaaa gcctatactt tggcagggtta 60
tgaactttga atgtgatgaa atgacacgtt tggctgcatt tggatgggtgt cttagaaccc 120
tcattgtcga gacctgaagg ctacttctag gagcatgaag tttgagtttt gtgtttttcc 180
aaaggatact tccttggccc tttttcttta ttgactagac caccagagga ggatgtgtgg 240
gattgtaggc aaaccacact gtggcatcac tgaaaataaa tttgatcata cctaagaggt 300
taggaaatgg tgccattccc accttagagt gctacatagg tgctttgggc gtatgtaaca 360
ttagtgctct tccttgaagc cacaagctag tttcttagt tttaaaatcc tgttgatga 420
atggcatttg tatattaaaa cactttttta aaggacagtt gaaaagggca agaggaaacc 480
agggcagttc tagaggagtg ctggtgactg gatagcagtt ttaagtggcg ttcacctagt 540
caacacgacc gcgtgtgttg cccctgccct gggtccccg ccatgacatc ttcaccttgc 600
agcttgtgct gagactgacc caagtgcagc tagcactggg acacagatcc ttgtcttcag 660
caccttccaa ggagccaact tttattccct ttctctctc cctccccac ctgcctctt 720
cccaatttag taacttagat gcttccagca catacgtagg tagctacccc agccggtttg 780
gattacaggc ctgtgctgga acatcatctc agttgkccac cttcctggca ggctgtagac 840
ctgacatttt gagacaagcc tagagtcagg agcagggact ttgactctta ggaagagcac 900
acatgagggc aaggctgctg gcagacgtct ccattgtcct tatgttgctt gtgttgat 960
ttttttttt tattgacctt ggtgattatt tttttaaac atcgtaata tactgaaagt 1020
agctatagca catatcatgt syttagtttg tttatttttc tccatctccc cttggcttcc 1080

```

```

tagagtttg acatattcca ggctaaatgc ttttactcaa gactacagaa aggtttgaag 1140
tagtgtgtgc atggcatgca cgtatgtaag taatctgggg aagaagcaaa gatctgtttc 1200
attcttagcc tcaggcctca tgagggtctc cacagggccg gagctcaggt tacaccactc 1260
cttcgtcctt acaggagatg tagggagaag aatctgcagg ctgcttgtrg gactgttcac 1320
caaggggat accagcagca agagagtgc cccgtttagc cctggaccct gtttcttact 1380
gtgtgacttg gctagagttg ggagttcccc caaaataaac gtgtcccat tttaccagaa 1440
ccaaacctca acacagcgaa gttactgtc tttgtgtggc aaagatgttc cttgttaggc 1500
ccctttcagg taaccgtctt cacaatgtat tttcatcaca gttaaggag catcagccgc 1560
ttctcaagtg ggtagggaaa gcagaaaaac gtacgcaaga ggacatggat ccaaaatgat 1620
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ttcaaaaaca cagctatcat agaaaagaaa cttgcctcat gtaaaactga ttgagaaatt 1740
ctcagtgatt ctgcaatgga ttttttttta atgcagaagt aatgtatact ctagtattct 1800
ggtgttttta tatttatgta ataatttctt aaaaccattc agacagataa ctatttaatt 1860
ttttttaaga aagttgaaa ggtctctcct ccaaaggaca gtggctggaa gagttggggc 1920
acagccagtt ctgaatgttg gtggagggtg tagtggcttt ttggctcagc atccagaaac 1980
accaaaccag cctggctaaa caagtggccg cgtgtaaaaa cagacagctc tgagtcaaat 2040
ctgggccctt ccacaagggt cctctgaacc aagccccact cccttgctag gggtgaaagc 2100
attacagaga gatggagcca tctatccaag aagccttcac tcaccttcac tgctgctgtt 2160
gcaactcggc tgttctggac tctgatgtgt gtggagggat ggggaataga acattgactg 2220
tgttgattac cttcactatt cggccagcct gaccttttaa taactttgta aaaagcatgt 2280
atgtatttat agtgttttag atttttctaa cttttatata ttaaaagcag agcacctgtt 2340
taagcattgt acccctattg ttaaagattt gtgtcctctc attcctctc ttcctcttgt 2400
aagtgcctt ctaataaact tttcatggaa aakctcctgt gccaggaaaa aaaaaaaaaa 2460
aaaatctcgg gggggggccc ggtncaccatt
2490

```

<210> 192

<211> 1808

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1228)

<223> n equals a,t,g, or c

<400> 192

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ggcacgagaa tgaactggtt tgcatttctt tttaaagagat gatagaggaa aatatagttt 60
tttgaagaa tgtttatctc tcttaaaaga taatctttta attttcttca gataacaagt 120
tattattatt ttttaagaaa gcaagtttca ccgtgcccg ccaaagtcag ctttcaaat 180
ccaagccata attggtgagg ggggagtttc agaattacat agaaaaatta atatttgaaa 240
aaataattct gaaatttcga atttaaaaac agatgtgctg cttctgggtg taggtagtaa 300
aagtatagga aaagaactgt ttccttagaa gcggactgtg gaagggtat gtagaatgtc 360
aaagggcaac aagagcctgt gtttttaatg tcatcctgta ctcggcacaa atcaaaggcc 420
aatacaagtc tgaaaagcag aaataaatat tttccagggt ttttgcttgg gcacatacta 480
actgcttttg gcattctaata ctggtctcca aacaccaaag acccatttcg agcctgctat 540
tagcctgctg ctgactctat cacttgagac aataatgtgg ggttatggtg gtggaatctt 600
gtatattttt gtcaaaaata aaaccttgag ttaaggggat agatatagat ggaaaaatac 660
acaaataaat acggtatgaa aacacatgga aatgtgtctt tgtcaaata gaatcattat 720
taccattcaca aaaattcttc tcttgccaa tatctcatt ccctatatag tatacaagca 780
ccatttcttc tcaattttta agaagagaaa ttagtccatt accacagggg ttcttgtcac 840
tactaattat acaacaatct tttccaaca aaaagatgtc ctccacaacc tttgttttca 900

```

```

aagcagacag catctatgtg gccaaatata ctttgggttg ttcttgagga tactggtttt 960
gggctgatga ctatgggtggg cagcatggat ccatggggct ccttctgcta aacagccaca 1020
ttgaaatggt ttaaaagcaa gtcagatcag gtgatttgta aaattgtatt tatctgtaca 1080
tgtatgggct tttaattccc accaagaaag agagaaatta tctttttagt taaaaccaa 1140
tttcactttt caaaatatct tccaacttat ttattgggtg tcaactcaatt gcctatata 1200
atatatatat gtgtgtgtgt gtgtgtgngc gcgtgacgtg tgtgtatgcg tgcgcatgtg 1260
tgtgtatgtg tattatcaga cataggtttc taacttttag atagaagagg agcaacatct 1320
atgccaaata ctgtgcattc tacaatgggtg ctaatctcag acctaaatga tactccattt 1380
aatttaaaaa agagttttta ataattatct atgtgcctgt atttcccttt tgagtgtctg 1440
acaacatggt aacatattag tgtaaaagca gatgaaacaa ccacgtgttc taaagtctag 1500
ggattgtgct ataatcccta tttagttcaa aattaaccag aattcttcca tgtgaaatgg 1560
accaaactca tattattgtt atgtaaatac agagttttta tgcagtatga catcccacag 1620
gggaaaagaa tgtctgtagt ggggtgactgt tatcaaata tttatagaat acaatgaacg 1680
gtgaacagac tggtaacttg tttgagttcc catgacagat ttgagacttg tcaatagcaa 1740
atcatttttg tatttaaaatt tttgtactga tttgaaaaac atcattaaat atctttaaaa 1800
gtagaaca 1808

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<210> 193

<211> 1073

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1028)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1069)

<223> n equals a,t,g, or c

<400> 193

```

gcttacctaa aagagctagg gtacatctga attttttagac ttgactgctt ttctgaatgg 60
cattttgtaa acttcattta aatttcaaaa atctttttga gctttttcaa atgatagggt 120
tttaaaaata tttttctatg tgatgttctg ttcttcaaaa aacaaataca ttaaaaacta 180
ttattgtggg accatattgg cctggaaaaa aaaatctttc ttaattgagc ataaacagga 240
ataaagatta attcaaaata gtttttcctc cttcttttgg aatgtggcat ccccatcaca 300
gttaakgatg taagtttttc aaaactgagt cagggactag tttatcccac aatgcgacaa 360
tgtgggcagg gtaattgtag gttgggctca gttttcttgc cagagtctta atgctgtttg 420
tgtacttacc tctaagtgga ataatttagg tacctataaa gtaagggtc aataacaata 480
accttaatga tggctaatat ttattgaaca tttactgtat gatagggaatt tggcaaatgt 540
ttttcatgat cttcacatca actttatgag gtagataata tccacatttt atagctgagg 600
aaactgaaat gtaattggta aataacttaa ctaggctcac acggacagta aataagctgt 660
atgtccaaga ttacaatcta gacagtttaa ctgtggagcc tgcaccatta attgctatac 720
agtatcataa tcatcaccac caccaccatc cctactgtct ctcagatcga tttttaggat 780
attggttaga tgaaacagag tacatgtgat atatagccaa agctctcttc tctataatat 840
tagctctcac agccattggg gtcttcaacc attcagagct gataagcaaa gatatcagcg 900
tactggaaca cagaacagtg ccttgcatca atacctagga caatatctgg cacaaggtag 960
gcactcaaat attcattgaa ggagtggcaa gatggtaact attcacatca acccccgaca 1020
ggacacnntt ttgcaatggc tataacgcgt cctggcccaa gcctaaaanc cat 1073

```

<210> 194
<211> 387
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (67)
<223> n equals a,t,g, or c

<400> 194
actatatttga aagatggccg cctgcaggta ccggtccgga attcccgggt cgacccacgc 60
gtccgtnccc ccaggccgct cgcgccaggcg ccgtgctgtaa actggacgca gacgaggacg 120
gcctccccta cctgtgcact ggctacgacc tgtacgtgac ccgcgagccc tgcgccatgt 180
gcgccatggc cctggtgcac gcacgcatcc tgcgcgtctt ctacgggtgcg ccctcgcccg 240
acggcgccct gggcaccgcg ttccgcatcc acgcacggsc cgacctcaac caccgcttcc 300
agggtgttccg cggggtgctg gaggagcart gccgctggct ggamcccgc acgtaggcgc 360
cgsccttctg scttcggacc cttcccg 387

<210> 195
<211> 973
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (88)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (89)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (101)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (189)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (895)
<223> n equals a,t,g, or c

<220>

<221> misc feature
<222> (960)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (969)
<223> n equals a,t,g, or c

<400> 195
tggtcgaccc acgcgtccgg acccacgcgt ccgtgaagat ggtggtgctt attgactaca 60
agaggaaatt ctacaggatt aggattnna agactactat nggaattggt tggcagtgcc 120
agctggctct tttttttaat attttattat ttttgtaac tttattatat gaaggtactg 180
gaataaaaang aacagacatc ctttctaac tgcactgcct acatgcgtat taaggtccat 240
tctgcctgtg tgtgctgtgg ctttgaactg taacacctct aatcaattca ggagaaacac 300
atatcattta aagcaacata ggctaacctg taggtaacac tgcagtattg atgttttact 360
gcaaatctta tgggtctaga taatcagtaa aagccatctt ccatagttgg tgtagaaca 420
ttgccctatt ggtttgaca tctgtagaat atatatgaag acaatttctg taatgggttt 480
aagagattta aaaagaaatt cactggttct ttacaaaata gaatttatca tcaagttatt 540
acacaaactt cacagtaagg agtgacaagt ttataataag gaagacaaag tttaacacct 600
tcaactaagc actccactaa tatatttacg ttgcattcag aaatactgat gaccttcata 660
tacgtagtct gtatactcat agggagatgt actgtattat ataacatgta aagttgattt 720
tcttgtgaca agagaacttc tttttttaac aagaggacat ggcattatth taatttgatt 780
atgggtgagt gaatttaaga catgaccatg aaggctgctt gtagaattag tgatttttat 840
taaactatth tttaatgkca acttctctg ttwatggatt atagagaacc aaaanctatt 900
actttgggtt tctagaaaagg tggtagatat catggcttgg ttaactttat tccttttgan 960
gaaaatttnc ttg 973

<210> 196
<211> 643
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (588)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (605)
<223> n equals a,t,g, or c

<400> 196
gccaatggtg tgaaaccccg tctctactaa aaatacaaaa attagccggt gtggtggcat 60
gcacctgtag tcccagctac tcgggaggct gagagaggag aattgcttga acccagtaag 120
cagagggtgc agtgagccga gatcatgcc a ctgcactgta acctaggtga cagagcgaga 180
ctccatctca aaagaaaaaa aaaaaatcag aagagttggg ctccagtctc agctgtatca 240
ttttctaact gatthtttaca ataaaaatga gagtaaaaaat cagttactct ttctagacat 300
taattagcac atttacgtta agactctaag tagtataaaa tgtaaaattgc tgctacccta 360
ctaagttact gtcagtaaat actgtgtgca gtaaatgttg agtatggatt aattgaagga 420

```
tacctctaca attatttcct ttagtcaagg ttgtagctaa gaattgggct tctgacatac 480
attcttttta atctttttcg tattgggktt tatagcacta aacctaatTT ctaacatatt 540
tttacacctg aaatctacat tctaataataa aggttttttt ttataacntt cctaaaattt 600
caggnccctca gcaggcagtt tttgtcccag ttttcttcaa cag 643
```

<210> 197

<211> 452

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (91)

<223> n equals a,t,g, or c

<400> 197

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ggcacgaggg cgaacagccc cgacgcgagg acggggaaac caaggcgcca gcaggagac 60
cctgaccgag gttccctggg aaccagtggg ncgaagggct gagctgtgtg gccagacaag 120
aggtccctgc cctccccag tgaagccctg ctgttcccgt gggagccatg aagctgaacg 180
agaggagtgt agcccactat gcactcagcg actccccagc ggaccacatg ggcttcctgc 240
gcacctgggg gggcccaggg accccaccga cccccagtgg cactggccga agatgytgg 300
ttgtcctcaa gggcaamctg ctattctyct ttgagagtcg cgagggccgg gcccaytga 360
gcctggtggg gytggaaggc tgcacagtgg aactggccga ggctcccgtg cccgaggagt 420
ttgccttgc catctgcttt gatgcccct gg 452
```

<210> 198

<211> 1032

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (41)

<223> n equals a,t,g, or c

<400> 198

```
ctccttgaca accctggcgg gggttcgctg gctgcggccc nggctccggc ccccgagga 60
gcagcacccc ccggggaaag acattttctg ctcccaccga gttggcaggg cctgcttcct 120
gaatctcctg ggtgtgtctt aactgccagt cccagcacct cctgaaagcc cactctcct 180
ccagtgttca cagtgaagg atcatgggag aaacagaagg gaagaaagat gaggctgayt 240
ataagcgact gcagaccttc cctctggtca ggcactcgga catgccagag gagatgcgcg 300
tgagagaccat ggagctatgt gtcacagcct gtgagaaatt ctccaacaac aacgagagcg 360
ccgccaaagat gatcaaagag acaatggaca agaagttcgg ctccctcctg cacgtggtga 420
tcggcgaggg ctttggggtt gagatcacc cagaggtgaa gaacctcctc tacctgtact 480
tcgggggcac cctggctgtg tgcgtctgga agtgcctctg acactctgtc ccctgccccg 540
tccctgcag gcccttttcc tgccactcat ctggggtggg gagcagccct aggcaggtcc 600
tggtttttcc aaggagagtt ggggtctttt ctttttgtct ttgtgtacca gtttcctgag 660
ccacgcccag tgtgtgaact tgacatctcc atccccaggc tctcaactgt ctccctcgga 720
gtctcagggg gtggacgggg cagcgggcat gggctctgtg gggagacgtg ggggtggggc 780
gtgtgacagg gtagaggagg tgggagatga gatcttccgc acaggaacac gccagtcacc 840
ctttctccag ggctgccttc cccttgcatc ctgggagccc cactgccctg ccatccccag 900
```

```
tactgccggg aagtgtcggc cgtccttggtc attagtgggc atatgaaaat ggccccaaga 960
aggagatgat tctttcaagg gwcacaggcc tctggtgggg acactggggc aggagtgtct 1020
ttcaccacga gg 1032
```

```
<210> 199
<211> 2732
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc feature
<222> (2190)
<223> n equals a,t,g, or c
```

```
<220>
<221> misc feature
<222> (2680)
<223> n equals a,t,g, or c
```

```
<220>
<221> misc feature
<222> (2694)
<223> n equals a,t,g, or c
```

```
<220>
<221> misc feature
<222> (2701)
<223> n equals a,t,g, or c
```

```
<220>
<221> misc feature
<222> (2726)
<223> n equals a,t,g, or c
```

```
<400> 199
tgaatgggac cgtggtttgc tctagcacc atctctacgc gctttcttgt cccacagggg 60
gccgccgtga tgagcacagc caaccagtt cccggagsct ggggcgggtgc akgtctctgg 120
accagggggc cagggtggct cttctctccc caccctcct tggctctcca gcacttcctg 180
ggcagccacg gccccctccc cccacattgc cacatacctg gaggtgacg ttgccaaacc 240
agccagggaa ccaacctggg aagtggccag aactkcctgg ggtccaagaa ctcttggtgc 300
tccgtccatc accatgtggg ttttgaagac cctcgactgc ctccccgatg ctccgaagcc 360
tgatcttcca ggggtggggag gagaaaatcc cacctcccct gacctccacc acctccacca 420
ccaccaccac caccaccacc accactacca ccaccacca actgggggcta gagtggggaa 480
gatttcccc ttagatcaaa ctgccccctt catggaaaag ctggaaaaaa actctggaac 540
ccatatccag gcttggtgag gttgctgcca acagtcctgg cctcccccat ccctaggcta 600
aagagccatg agtcctggag gaggagagga cccctcccaa aggactggag acaaaaccct 660
ctgttcctt gggctccctc aagactccct ggggcccac tgtgttgctc caccgggacc 720
catctctccc ttctagacct gagcttgccc ctccagctag cactaagcaa catctcgctg 780
tggagcgcctg taaattactg agaaatgtga aacgtgcaat cttgaaactg aggtgttaga 840
aaacttgatc tgtggtgttt tgtttgttt ttttcttaa aacaacagca acgtgatctt 900
ggctgtctgt catgtgttga agtccatggt tgggtcttgt gaagtctgag gtttaacagt 960
```

```

ttgttgcct ggagggattt tcttacagcg aagacttgag ttctccaag tcccagaacc 1020
ccaagaatgg gcaagaagga tcaggtcagc cactccctgg agacacagcc ttctggctgg 1080
gactgacttg gccatgttct cagctgagcc acgcggctgg tagtgagcc ttctgtgacc 1140
ccgctgtggt aagtccagcc tgcccagggc tgctgagggc tgccctctga cagtgcagtc 1200
ttatcgagac ccaacgcctc agtctgctca tccgtaaagt ggggatagtg aagatgacac 1260
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tgcccgctcta tcttaccctt ttagtgaccg ccccatcccc ggctttctga gctgacctt 1380
gaagaagaaa tcttccattt ctgctctcaa accctactgg gatcaaaactg gaataaattg 1440
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aggttggcca gagggtgtga cccagttacc cttaaacccc cacccttcca gtcgggtgtg 1560
agggcctgac cgggcccagg gcaagcagat gtcgcaagcc ctatttatctc agtcttcaact 1620
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caatgatggc atccaggaat tagctgagcc aacagaccat gtggacagct ttggccagag 1860
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accccaggaa aaggaagagg tcgaaccaan cctgcggaag gagcatggtt tcaggagttt 2220
attttaagac tgctgggaag gaaacaggcc ccattttgta tatagttgca acttaactt 2280
tttggtctgc aaaatatttt tgtaataaag atttctgggt aataatgagt ccttcgggtg 2340
ttcagtattc ttgtctttgt gagtgcgtcc cggggccgcc tcggggcctg cctgccctcc 2400
tgccaaagcc tggaagagga ttgaatggac cccagggttt ggaaacaacc tacagcattt 2460
gagccccca cgtaggtttt agagacgtac aatttttgtt tgccctggct cagaaggagc 2520
cgggtgtaagg ttgagataaa attccatata gacaactgag tttggatctc ggctctgctg 2580
ctttgtagct gtgggagttc aaacagcacc tctttgagac ttgggccccg cgtcggcaca 2640
atggggcagg aatagtcctg ccagggtgac tgtgtggatn aaggagggtg gaanactgag 2700
nccacgcttg gcactgggta agccanactg ag 2732

```

<210> 200

<211> 2315

<212> DNA

<213> Homo sapiens

<400> 200

```

ggccccccgc ccctccagtg catatcagta tcatggaggg acattactat gatccactgc 60
agttccaggg accaatctat acccatggtg acagccctgc cccgctgcct ccacagggca 120
tgcttgtgca gccagkaatg aaccttcccc acccagggtt acatccccac cagacaccag 180
ctcctctgcc caatccaggc ctctatcccc caccagtgtc catgtctoca ggacagccac 240
cacctcagca gttgcttgct cctacttact tttctgctcc aggcgtcatg aactttggta 300
atcccagtta cccttatgct ccaggggcac tgccctcccc accaccgctt catctgtatc 360
ctaatacaca ggccccatca caggatatat gaggagtga ctaactataac cccgcccagc 420
agcagggtga gccaaagccc tccccacccc ggaggactcc ccagccagtc accatcaagc 480
ccccccacc tgaggttgta agcaggggtt ccagttaata caagtctctg aatattttta 540
atcttaacat catataaaaa gcagcagagg tgagaactca gaagagaaat acagctggct 600
atctactacc agaagggtt caaagatata ggggtgtggc cctaccagca aacagctgaa 660
agaggaggac ccctgccttc ctctgaggac aggcctctaga gagagggaga aacaagtgga 720
cctcgtccca tcttactct tcacttgagt tggtgtgtt cgggggagca gagagagcca 780
gacagcccca agcttctgag tctagatata gaagcccatg tcttctgctg ttcttcactt 840

```

```
ctgggaaatt gaagtgtctt ctgttcccaa ggaagctcct tcctgtttgt tttgttttct 900
aagatgttca tttttaaaagc ctggcttctt atccttaata ttattttaat tttttctctt 960
tgtttctgtt tcttgctctc tctccctgcc tttaaataa acaagtctag tcttctggtt 1020
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tcagccagcc tccccacca agtctaaaaa gacctggcct ttcactttta gttggcattt 1140
gttatcctct tgtataactg tattccctta actctaacc tggggaagca tggctgtctg 1200
cacagagggt cccattgtgc agaaaagctc agagtaggtg ggtaggagcc cttctctttg 1260
acttaggttt ttaggagtct gagcatccat caatacctgt actatgatgg gcttctgttc 1320
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gctacacccc ttttccagtt gctgtggacc aatgcatctc tttaaaggca aatattatcc 1560
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gttttagatg ttactacctt attttccccg aattctatct ttgtccttgc agacagaata 1680
taaaaactcc tgggcttaag gcctaaggaa gccagtcacc ttctgggcaa gggctcctat 1740
ctttcctccc tatccatggc actaaaccac ttctctgtct cctctgtgga agagattcct 1800
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aacctgaggg caaagatggt ggctgtgtct ctccccggt atgtcactgt ttttattcct 1920
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ggcacttaat ctgtaacccc caaggaggaa ataactaaga gattcttcta ggggtagctg 2040
gtggttgtgc cttttgtagg ctgttccctt tgccttaaac ctgaagatgt ctctcaagc 2100
ctgtggcagc atgcccagat tcccagacct taagacactg tgagagtgtt ctctgttgg 2160
ccactgtgtt tagttgcaag gatttttcca tgtgtggtgg tgttttttgt tactgttta 2220
aaggggtgcc atttgtgatc agcattgtga cttggagata ataaaattta gactataaac 2280
ttgaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaag 2315
```

<210> 201

<211> 890

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (659)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (828)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (887)

<223> n equals a,t,g, or c

<400> 201

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ggcacgaggg gccgcgcacc tcatggttcc ggggacagtt agggcggcgg atggaggtca 60
gcggtggtgc tcgctgcggg ttggaatcac ttgctaggag tcttgtctct ctgccacca 120
ggacatcatg gcagctcacc tggtaaagcg atgcacgtgc ctctgagag aagctgctcg 180
tcaggcccct gccatggctc cagttggccg actgagactt gcctgggtag ccataaac 240
```

```
tctgacttcc tcagccacct caccatttc ccacctccca ggttccttga tggagccggt 300
ggagaaggaa cgagcatcta ctccctacat agagaagcag gtggaccacy tcatcaagaa 360
ggccacaagg ccagaggagc tcctggagct acttggtggc agtcacgact tggacagcaa 420
tcaagcagca atggtactta tccggctctc tcaacttgctg tctgagaagc cagaagataa 480
aggcttgctc atacaggatg cccactttca tcaacttctc tgtctgctca acagtcagat 540
tgccctcggtc tggcatggta ccctctcgaa gctgctggga agcctgtatg ctctgggcat 600
ccccaaggcc tccaaggagc tgcagtcggt ggagcaggag gtccgctggc gcatgcgga 660
agctcaagta caagcacctg gccttcctgg cagagtcctg tgccaccctc tcacaggagc 720
agcactcgca ggagctgctg gctgagctgc tcacacacct ggaaaggcgt tggacagaaa 780
ttgaagattc ccacacatta gtgaccgtca tgatgaagggt gggacacntc tcggagccat 840
aatgaaccgc tggaagacaa gcaagttctt gaacagagcg caggacntca 890
```

<210> 202

<211> 1533

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (863)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (872)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (911)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1522)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1524)

<223> n equals a,t,g, or c

<400> 202

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cgatgctgga ccattgatgg gcacctcccg ggacggagat acaactcgtc aacgaatcaa 60
attcagtgat gacagagtat gcaagagtca ccttctcaac tgttgtcctc atgatgtcct 120
ttctggaact agaatggatc ttggagaatg tctgaaagtc catgacctgg cttaagagc 180
ggattatgaa attgcatcca aagaacaaga ttttttcttt gaacttgatg ccatggatca 240
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aaatgaagaa attggtaaat tgtagccaa ggtggaacaa ctaggagctg aagggaatgt 420
ggaggaatcc cagaaagtaa tggatgaagt agagaaagca cgggcaaaga aaagagaagc 480
```

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tttccccct taaagtcctc gngnactaa aga 1533

<210> 203

<211> 2826

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (285)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2755)

<223> n equals a,t,g, or c

<400> 203

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tagacgccgg gaaaaggcat aaagtccgtt ggccgacacc tttctttcct ccggcctcgg 120
tagaaccgcc agcccgcgtc cgaaggcgga ggcgagggga actggccgcg tgaggggcct 180
gaggcgagcg gttagagcgt ctcccggaag gatgggcccgg tctcggagcc ggagctcgtc 240
ccgctccaag cacaccaaga gcagcaagca caacaagaag cgcancggtc ccggtcgcga 300
tcccgggaca aggagcgcgt gcggaagcgt tccaaatctc gggaaagtaa acggaaccgg 360
cgcggggagt cgcggtcccg ttcgcgctcc amcaacacgg ccgtgtcccg gcgcgagcgg 420
gaccgggagc gcgcctcgtc cccgcccgac cgcatcgaca tcttcgggcg cacggtgagc 480
aagcgcagag cctggacgag aagcagaagc gagaggagga ggagaagaaa gcggaagtctg 540
agcggcgagc aaaaattcga cagcaagaaa tagaagaaaa actcatcgag gaagaaacag 600
cacgaagagt agaagawttg gtagcaaaaa gggtaggagga agaactggag aaaaggaagg 660
atgaaattga acgagaagtt ctccgaaggg tggaggaagc caaacgcac atggaaaagc 720
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```
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tgaggagacg gtggggagac agggagtggg aaagggaaaa ggtaaaaaat ccacctgtgg 1140
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ctgagtttca gttcagattg tagatgacaa tataagctgc cttccgaaat tgtcaacatc 2340
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catttgattt tttcactaac agtaaatgta ttttctttat taattgtttg ccttaggaat 2460
gatgaattac attttttgtt ccttcttacc ataaacatct gcattcctca gctcagcctt 2520
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ggacactgga caagacagta aatattcaac ttttaatgct gattaaagga gtataggtaa 2700
agaatacgtg ggtatacata attggtgaga caaatattca ctttatttat atttnatata 2760
taaaaaaaaa aatttggtwa atactatcca gttttgtagt tgtccttggt gggttggtg 2820
gtatta 2826
```

<210> 204

<211> 1538

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (3)

<223> n equals a,t,g, or c

<400> 204

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ataggatatt garctgagag tgaaagcatt gtgtaccatc atttttttcc aagtcctttt 120
ttttattgtt aaaaaaaaaa gcataccttt tttcaatact tgatttctta gcaagtataa 180
cttgaacttc aacctttttg ttctaaaaat tcagggatat ttcagctcat gctctcccta 240
tgccaacatg tcacctgtgt ttatgtaaaa ttgttgtagg ttaataaata tattctttgt 300
cagggattta acccttttat tttgaatccc ttctatttta cttgtacatg tgctgatgta 360
actaaaacta attttgtaaa tctgttggct cttttwattg taaagaaaag cattttaaaa 420
```

```
gtttgaggaa tcttttgact gtttcaagca ggaaaaaaaa attacatgaa aatagaatgc 480
actgagttga taaagggaaa aattgtaagg caggagtttg gcaagtggct gttggccaga 540
gacttacttg taactctcta aatgaagttt ttttgatcct gtaatcactg aaggtagata 600
ctccatgtgg acttccctta aacaggcraa cacctacagg tatggtgtgc aacagattgt 660
acaattacat tttggcctaa atacattttt gccttactag tatttaaaat aaattcttaa 720
tcmgaggagg cctttgggtt ttatttgtca aatctttgta agctggcttt tgtcttttta 780
aaaaatttct tgaatttggt gttgtgtcca atttgcaaac atttccaaaa atgtttgctt 840
tgcttacaaa ccacatgatt ttaatgtttt ttgtatacca tawtatctag ccccaaacat 900
ttgattacta catgtgcatt ggtgattttg atcatccatt cttaatatat gatttctgtg 960
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gctaatatag gaatatcagg ttgactatat agccatactt gaaaatgctt ctgagtgggt 1200
tcaactttac ttgaatgaat ttttcattct gattgacgca cagtgatgta cagttcactt 1260
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gtttataaga tctgaggatg gttataaata ctgtaagtat tgtaattgta tgaatgcagg 1440
ttatttgaaa gctgtttatt attatatcat tcctgataat gctatgtgag tgtttttaat 1500
aaaatttata tttattaatg ccwaaaaaaaa aaaaaaaaaa 1538
```

<210> 205

<211> 2342

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2338)

<223> n equals a,t,g, or c

<400> 205

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ctatatgtga gactgacaaa aaccttaatg taatttactt ataatgccag aaggaaaaaca 60
ctattttcat accctacttt ttctgtacct aaattttctt aaaaaaaaaa ctagtatagc 120
actacattct tttttaagtg atgcagacct tagtttcttt agccctttta ttttgaatac 180
aatgctacat atgaatgttg aagctgatac attgcacagt tctgtagaca tctactacac 240
gatgtagttt ctcaaatttt agcaatatgc tctacataaa atcactacag agatactagt 300
ggggaagacg rttaacacac ctsttacagt aatactgcct gttattggta tagcagtggt 360
atgtgcagac tgggatcata aggagccctt aaatacttgt tattgactgg gggtattttt 420
atgctgtagc aaatgtgaca ggctcttttt agcaaaaatt ttgaaaattt ttttgggtatt 480
actctgaaac aaaattttaag ttggagtttc agggatttag ggagtagttt tcattctaca 540
tgaactgagg taatatattg gtaactcaa tatttggtta aaaaaactat acaaatcaga 600
atagtactaa aatactgtag aatttttagc tttttatttt gcactttgtg tggattgagg 660
tgttcagaaa taccaaccat aaaaatgtaa tctagttagc aaagggtgtg gctaaaacac 720
ggaaccgaac atgcattgat ttggataact tttgaggggt tttgtcaaat agcatgtgaa 780
gagttacatt tttcttaaaa gattgggtgt cccaatgtca gagttcttgg aacagataac 840
tgaatgatag attttttttt tttaaagata aaactttaca acctgcacat ttgttatgca 900
tactaaatgg tgtgttaaaa ttagggtttc tttgcctctc tacactacac taatctgcct 960
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gtagaaaatt atctgattta aatacaaaac tatttttctc acattgagta atatgcataa 1080
tgtagttcca aatgtatttc attactatag tcacaatatc caactaaaaa ttacgctatc 1140
tagaattgta ccaacccaaa tctcgtattg gcagatcttg acaggctgga cctgcaagat 1200
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```

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aagaaataat ttaaaagggtt ttgttgctga aagcagtaag tggcgcagta aaatacttaa 1320
gttattcaaa gaatgttatc tttcttgcaa gagtaattta agcacatggg aaagattcta 1380
gactttttgt ttcttgcaac aacagtgtccc tctgctgcta gaaacctttt tctacttact 1440
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aatgtcttca gggtaatgcc aatttaagat ctctcttaac ttgtggccaa gaaattctag 1680
attttccagc tgactttggg ataatatata ttatcagga acttctctca gcagagagta 1740
cccattcttc gagttcaaag cacaatttta aacatgtaaa atggatatat aatttgccaa 1800
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aagtctaaat tactgttggg tgaaacacag cagctgtgga gttcagtcca ggcatgaaga 1920
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tgtatagtga ataggatgtt gcactgggtg caattcatca tggagcataa taaaattaat 2280
ttgacccaaa tagaawaaaa aaaaacgcaa gggggggccc ggtcccatc sccctatngt 2340
aa 2342

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<210> 206

<211> 827

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (282)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (442)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (802)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (807)

<223> n equals a,t,g, or c

<400> 206

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gtggagcagg acagatgctg catccaaact cttccattgg gttccagtct gttccagtca 60
tgcccttgag cctctaaagc tcctagggtga gagacgtagc agctgacagc acttcccact 120
tgatttgggt ggactccagc ctccccagca acaataagag atcaaaagca tcgttgagga 180
agcagcttgc tgaacgcgtg agtgcccgcc actctcaggt caggtgggac cggcaggcca 240

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gcatgagttc ctgaacactt ggttctcaat actggccaca gncacactgt aaggggaaac 300
aagagggcgc tgtatgcaaa catctcttga actctggagt ctgctcacct tcctgcctca 360
agcccccttc ccacgtggtc cagtcacat tctccacaga gactacccta aaaccacgcg 420
actctcgtgt gcctgcagaa tngcacagcc cgttctcata gcagcactcc tgtttaatca 480
gagggatggt aacgaccaag tcatatttgc tcgatttggt ttcaatatat ttcatttgta 540
ccgataaaac ttaaaaatat cccacacat gcattgccta ttaaagagta tcttccaggt 600
acacctccct tacacatcag ttaacttgat aatttcttcc cattcttggt caataaattt 660
ccttcctgat cagctctgtc cagcagcaac aataatccac gtagagaca tgcaactaa 720
aagtcctgta gtgggaggca cgaacttgat gaggcttgga aaaaaaatga ccgatttgga 780
ttaaaattag gacccatgga tnggganctc ctgcctattt tagaagc 827

```

<210> 207

<211> 2326

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (404)

<223> n equals a,t,g, or c

<400> 207

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gcgtccgggtg gtggactgag taacagtcac ttagagtccc ctttctgtct ctttaaaagc 60
ccctcggagg gccacagtta tcagaacagc ggtctggacc acttccaaaa cagcaacata 120
gaccagagct tctgggagac ctttgaagt gctgagccca ccaagaccgc caagtccccg 180
agcagcgaca gctggacgtg cgcggacacc tccaccgaga ggaggagctc ggacagctgg 240
gaggtgtggg gctcggcctc caccaacagg aacagcaaca gcgacggcgg ggaggcggg 300
gagggcacca agaaggcagt gccgccggcc gtgcccactg atgatggctg ggacaaccag 360
aactggtagg gccactgcg cccccgtccc cagcgcctcc gggngacttc gtgtttgcac 420
tctgccctcg tcgttcctcc tcctccatt tgacccaaga atcagcaact gcagtgtgag 480
gacagcgtct cgggaggcag gaccctaggg agaccgggt gtgcgccgcc tgcgcgtggg 540
gagtcttcgg tgcgtggggg cggcttgctg tccagcctgt gtggggggccg tcccgtccca 600
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agggtgctt ggaccctggg gggctgagtg ctccaggag ggggtggactc caccttggac 1920
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ccttctgcag gtgcgggcag gtgggcctgg gaccgggtgct ggggcctctc cttgctgtgt 2220
gtgagggccc aggtggaagg cgcggacctg acagcattcc aataaagcat acgggaacat 2280
gmaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa gggggg 2326
```

<210> 208

<211> 1462

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1445)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1453)

<223> n equals a,t,g, or c

<400> 208

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tactagtttt tctaagctat ttacagagtg tttgtagctt tcatttgcag cattatgttc 120
ccacaaattc tgtactcagc atatacagta tagtttatct gctctatttc tgtcttatag 180
aaatcatgaa tgtggtctgc agacattgat gaagaaaatc tgttggtaat tgatacatgg 240
gctaaagcat cagaggttta atttgaagtt tatgttcaca cactgaaaac ttagtttttt 300
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aagttcaattt ttaaactaag caaagggtaca cgttgtaacg gtggggcatc tgtgaaaaag 420
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ggcctgcttc acttgcagat aagtttatta taattctcca gaaatgtgca ggatgtgcat 540
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tggttttgct cagtattagt agacaaggtc tttgttcaga cgattagggtg cctaactggc 720
aaatgcctta gtttcttaaa acgtattttc tgatgtggct ttacatttca aaagtgaact 780
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caatagtctt gttacttagg ctgttagatc caagttgatt tttgtgtcta cagctaaatt 960
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aatcccaatg aaaaacctac ccagcaaaga agcatagctt ttagctctaa taattctgta 1140
gcaaagccaa tacaaaaatc agctaaagct gccacagaag aggcactctc aagatcacca 1200
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catccctttg agccattcag ggtacttgtt gcatttataa accaacacaa aaagatgtaa 1380
atacttaaca ctcaaatatt aacattttag gtttctcttg cagatttttg gggttaggcc 1440
```

cggtngggcc canggttttt gc

1462

<210> 209

<211> 2581

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2090)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2566)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2572)

<223> n equals a,t,g, or c

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<211> 1994

<212> DNA

<213> Homo sapiens

<400> 210

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<210> 211

<211> 1514

<212> DNA

<213> Homo sapiens

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<222> (691)

<223> n equals a,t,g, or c

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<221> misc feature

<222> (866)

<223> n equals a,t,g, or c

<400> 211

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<211> 483
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 <213> Homo sapiens
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 <221> misc feature
 <222> (444)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (469)
 <223> n equals a,t,g, or c

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<210> 213
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 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (869)
 <223> n equals a,t,g, or c

<220>
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 <222> (870)
 <223> n equals a,t,g, or c

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<210> 214

<211> 4799

<212> DNA

<213> Homo sapiens

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<221> misc feature

<222> (1164)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2403)

<223> n equals a,t,g, or c

<400> 214

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 actctctgct gccttacaag tattaatat tttacttctt tccataaaga gtagctcaaa 660
 atatgcaatt aatttaaatam ttctgatga tggttttatc tgcagtaata tgtatatcat 720
 ctattagaat ttacttaaatg aaaaactgaa gagaacaaaa tttgtaacca ctagcactta 780
 agtactcctg attcttaaca ttgtctttaa tgaccacaag acaaccaaca gctggccacg 840
 tacttaaaat tttgtcccca ctgtttaaaa atgttacctg tgtatttcca tgcagtgtat 900
 atattgagat gctgtaactt aatggcaata aatgatttaa atatttgtaa aaaaaaaaaa 960
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 gacgtcatag ctctctccct atagt 1045

<210> 216
 <211> 1164
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (1140)
 <223> n equals a,t,g, or c

<400> 216
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 atgcctttct gaagcgaga ggaagcctg ggtgactcag cgggtggtctc cattcagcaa 120
 aatctcatgt acatttccag taggaaccgc agagggtgtc ttttcaagac tcaccaata 180
 ctgtgttttc tctcttagga tttcttttcc cctaaagtat cacggaagat actatggttc 240

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gtgactttct tgctaactga agaagccaag gatttgggggt gtggggctcgt atgcgagaca 300
cagtggggta aggggtgcata cccacccct tacctgctct catactgcag ttacatttac 360
acccaaaccc catgcagggt tctttgtggt gagtgttcca tacgtgctaa ggaccttagt 420
tgcagattgt tactttctgg tgacctatgt tgaattgaaa ccccaaaaac ttgaaattgt 480
gaacatttga catgcagtaa aggccacctc atcaccacaga gaaatctttg gctgctgcag 540
ctagccgctt cttggctgtr atgtagtata gcttcgatct cattttgtgt ttgagagaat 600
gttctgggca agttctgtgt gtgggtgggtt ggggcggtag agtcaygagt tttccacatc 660
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attttacatt ttttacattg ttttctttt ttaaccaact cattgtttta aaaacaaaaa 900
caaaaaaac ctaatctgtg aaatcagcgt agcatgcctg gagcatcagg aatggcagaa 960
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ratttattag ctgggactga actggctgtg aaatctatga wttgctttga acatttgggt 1080
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aattcattga aggtctgtgt ttcc 1164

```

<210> 217

<211> 1594

<212> DNA

<213> Homo sapiens

<400> 217

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ggcacgaggt gagagaaggg cagtttctct cattggaacc tggagcaagc gctctatctt 60
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aattctggtt ttggatatgt tctgtaaaga ttttgacaaa tgaaaatgtg ttttctctgt 180
ttaaacttg tcaagtgact agaagtgtg tctctgtagg tgcagggtcca tttctgcca 240
caggtaggggt gtttttctt gattaagaga ttgacacttc tgttgcctag gacctccaa 300
ctcaaccatt tctaggtgaa ggcagaaaaa tccacattag ttactcctct tcagacattt 360
cagctgagat aacaaatctt ttggaattt tccaccata gaaagagtgg tagatatttg 420
aatttagcag gtggagtctc atagtaaaaa cagcttttga ctacagcttg atttatcctc 480
atttgatttg gccagaaagt aggtaatatg cattgattgg cttctgattc caattcagta 540
tagcaagggt ctaggtttt tctttcccc acctgtctct tagcctgggg aattaaatga 600
gaagccttag aatgggtggc cttgtgacc tgaaacactt cccacataag ctacttaaca 660
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tacaccaaag gaaagacaat tctgaaatgc tgttctctg gtggttccct ctctggctgc 780
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tggcagcagg agggaaacaga cttatgtwaa cagagataaa aattaatttt caatattgaa 1140
ggaaaaaaga aataagagag agagaaagaa agcatcacac aaagattttc ttaaaagaaa 1200
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cttactggtc tgccagctaa aacttggcca catcccctgt tatggctgca ggatcgagtt 1500
attgttaaca aagagacca agaaaagctg ctaatgtcct cttatcattg ttgttaattt 1560
gttaaaacat aaagaaatct aaaatttcaa aaaa 1594

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<210> 218
 <211> 1545
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (1512)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1525)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1544)
 <223> n equals a,t,g, or c

<400> 218
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 cgggcgtgga acgggtctgt ttccgggctc gaatccagcc ctggcacggt ggcctgctcc 120
 aaccgctacc ttgctctttc gagatggggc tgccacgccg ccggttcagc tccgaggccg 180
 cagaatctgg tagcccagag accaagaaac ctacatttat ggatgaggaa gttcaaagca 240
 tactcacgaa aatgacaggc ttgaacttgc agaagacttt taagccagct atacaagaac 300
 tgaagccacc aacctataag ctaatgactc aggcacagtt ggaagaggct acaagacagg 360
 cagttgaggc agctaaagta cgattaaaaa tgccaccagt tctggaagag cgagtaccaa 420
 taaatgatgt gttagctgaa gataagattt tggaaggaaac agaaacaacc aaatatgtgt 480
 ttactgatat atcatatagc ataccacacc gggagcgttt tattgtcgtc agagaaccaa 540
 gtggcacact acgcaaagcc tcttgggaa g aacgggaccg aatgatacaa gtttatttcc 600
 caaaagaagg tcgtaaaatt ttgacaccaa taattttcaa ggaagaaaat cttaggacta 660
 tgtatagcca ggacaggcat gttgatgtcc tcaatctctg ctttgcccag tttgagccag 720
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 aatatgacct tttacgttca acaagatact ttggtggaat ggtgtggtat tttgtaaata 840
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 tgtaaatatt gagctaaatg ttaaaaaatg gccagattaa aagatatcaa tttgtagttc 1200
 tccctamaaa rmaaaaatta ttaccctact cacttttcgt aggttacaag gatatttgag 1260
 tgcctgggta tgaatttctc aaatcatgtt agatgagcgt acggttaaaa agtctggtgt 1320
 gtttttggtg taccaaatag ggcaaacggt aacttagaca gacccccagc ttaatgaggt 1380
 cagaggaaaca gaggtttcac atcctgactc cagaaatggg tagctgctag acaaaatcgg 1440
 ggcaagacct gtggaatgat gccatgaggt caagaaaaag ggttttagaga attacagccg 1500
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<210> 219
 <211> 462
 <212> DNA

<213> Homo sapiens

<400> 219

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aagctatttta aagtaaagga tttgtttcaa atcaatgtat gtccacaaat taacattaat 60
gtttacaata ctttctgtga taattgtgtc ttacttgggt gtatatatgt ctttatatct 120
atctgtaaag atatagttgc aagtagatga gagacgaatg ttcattgttc tatatggctct 180
gaataaaaagt gttatcacta tgctaacttg cagtgttata aaatgcacca atggctcttt 240
gtgccactcc ttcattttca gtggttacca agatagtcaa attaaactgc tgatgtgata 300
atcatccaaa catttaattt taacactatg attatagaat ttytttattt ctatgagatt 360
tacctatagt agctttctgt ttaakgtyca atgttctata ggagtttcct tttaaagtct 420
cagagcagga gctataccct ctaggatatg caaataatca ag 462
```

<210> 220

<211> 3094

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (4)

<223> n equals a,t,g, or c

<400> 220

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agtgggttca gagcacagt agcaaagagg acgccatgcc ggaagcactg aaaagtctca 120
tattcccgaa ttttgaacct ttgcacaaat ttcatactaa ttttctcaag gaaattgagc 180
aacgacttgc cctgtgggaa ggccgctcaa atgcccaaat cagagattac caaagaatcg 240
gcgatgtcat gctgaagaac attcagggca tgaagcacct ggcggctcac ctgtggaagc 300
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tctgcagaga ctttgagctg cagaaggtgt gttacctacc gctcaacacc ttcctcctgc 420
ggccactgca ccggctcatg cactacaagc aggtcctgga gcggctgtgc aaacaccacc 480
cgccgagcca cgccgacttc agggactgcc gagccgcttt ggcagagatc acggagatgg 540
tggcacagct ccacggtacg atgatcaaga tggagaattt ccagaagctg cacgaactca 600
agaaagattt gattggcatt gacaatcttg tggttccggg aagggagtgc atccgtcttg 660
gcagcctcag caagctctcg gggaaggggc tccagcagcg catgttcttc ctgttcaacg 720
acgtcctgct atacacgagc cgggggctga cggcctccaa tcagtttaaa gtccacgggc 780
agctcccgct ctatggcatg acgattgagg agagcgaaga cgagtggggg gtgccccact 840
gcctgaccct ccggggccag cggcagtcca tcacgtggc cgccagttct cgggtccgaga 900
tggagaagtg ggttgaggac atccagatgg ccattgacct ggcggagaag agcagcagcc 960
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caaatcacac caggacaatc atccccttgc cagcctgcct ctgctcggct actcgctcac 1320
catcccctct gagtccgaga acatccagaa agactacgtg ttcaagctgc acttcaagtc 1380
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gtattgatgg ccggacacac tcgtttccgc agtggctgct ttcttggaag acgtttccctt 1560
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gccagtatta aaacattgtc attacgagag tgccaaatga catcttcctt ccacctgcc 1800
cctgaaaaac agtacacaca catccgttca acacaagaca gggcaagtgt ttttcttcct 1860
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atgttttaag gcaaaacaac caactttgtc tgtagtcttc attttctgtg tgggggggga 3000
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gagggcctgc cccccactgt tccctatgct cccc 3094

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<210> 221

<211> 1756

<212> DNA

<213> Homo sapiens

<400> 221

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ggcacgaggt aagatggaag atgaggaggt cgctgagagc tgggaagagg cggcagacag 60
cggggaaata gacagacggt tggaaaaaaa actgaagatc acacaaaaag agagcaggaa 120
atccaaatct cctcccaaag tgccattgt gattcaggac gatagccttc ccgcggggcc 180
ccctccacag atccgcatcc tcaagaggcc caccagcaac ggtgtggtca gcagcccaa 240
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cgaggcccg aagcggatcc tgggcagcgc cagccccgag gaggagcagg agaaacccat 360
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cagacagcct ttgggtcctg atgggtctca aggttcaaa cagcgagat aaatgcaggc 480
aagaaaagat gccgcgctg ctgccgtcac cgctcctgg gtcgtccgcc acgggttgca 540
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cacttggcc cttggggtaa agccagtgcc agcaataaca gtttatcatg ctcatatatt 840
tgggatttca aaacacaaat gaaaactcac acccaccac cccaagtgc atgtctccat 900

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cacttaaaaa gtaagttcca tttgaaaata tcctttcttt tttttttctt cctatTTTTg 960
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aatgaatttt taattaagaa agggtagttt ggtagtctac ttaaaaatgt ttctgggaaa 1080
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gcatggcttg aactcttagg ggtctgcagt gctccatctc cattggtggc cccagctcag 1620
taactatacc tggtagattt cctgtgtgca atcagtagct tgaaggcaga acattctgaa 1680
taaagtgtga aaaaraamaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1740
aaaaaaaaaa actcga 1756

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<210> 222

<211> 571

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (478)

<223> n equals a,t,g, or c

<400> 222

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tgagctctgc cgggacatgt tctccaaaat ggccacttac ctgactgggg aactgacggc 180
caccagtga gactataagc tcctggaaaa tatgaataaa ctcaccagct tgaagtatct 240
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tgctggactg cagccttacc tggatcagat caatgtcatt gaagagcagg tagcagctct 360
tgagcaggca gcttacaagt tggatgcata ttcaaaaaaa ctggaagcca agtacaagaa 420
gctggagaag cgatgagaaa cttatttcta tgggacagaa gtcttttttt tttaatgngg 480
aagaatgctt ataaaacctg aatcctgagg ytgatgaatt gkgaaaatcc tcaaaaggaa 540
attatgtggc atcacaggac attttaacgg t 571

```

<210> 223

<211> 1697

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (221)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1084)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1320)

<223> n equals a,t,g, or c

<400> 223

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aggcttaacg cgcaggaggt ctccagagag tggaagcaac tctcgcgaat tttaaaattt 120
atctttttgc ctacgcgactg acaacaggct gggtgcttgg cgtggaatcc taaagtggcc 180
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tgatgatgat gatgaagagc atggagcccc tctggaaggg cctatgacct tgcagactat 600
gagcatttgc cagtttctgc tgaatttaag gaactcttcc agtacatcag taggtacaca 660
cctcagttga ttgacctgga ccacaaactg aagcctttca ttctgattt tatcccagct 720
gtcggggata ttgatgcatt cttaaaggct ccacgtcctg atggaaagcc tgacaacctt 780
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aartgctgtt tcaaggctg arctggcccc tctgccccag ctgagatgga cagatcgttg 1380
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tgccctctct gccagagggc acagaacatg tttgtttaat gaacctgcct gcctcagatt 1500
gctgtccccg gggagttaat gcattctacac cctgtgggg atttgagtta taagaatttg 1560
aatttctgag atcccatgga ggttagattg ggaggaaagc ttaaaagatg tcctttttgt 1620
gagagggatg gaattgtttt ctttcattcg taaagttagt gagtaaagat tttataaatc 1680
aatgtctcta aaaaaaa 1697
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<210> 224

<211> 2156

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2155)

<223> n equals a,t,g, or c

<400> 224

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ctgtgtaaca ttcatacttt gaacaattta tgttggtttc taatacctaa ttaaaactaa 120
```

```

agagtaacta gcaatatttat cttttattca ataaggaagc actaagtaat atggatgatt 180
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ctgatgtaca agtcttcccc aggccagAAC cttttgttgt agatgaagaa attgatccta 660
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aaaatgtggg ggtaactctt aagtgccttt ggtatctctt gagattctaa cttttaaaga 2040
gcaaccatta atgtgtaaaa tgattcctat tattcaagggt ttttttttaa tgaaaataaa 2100
atatttgatt ttctagaaaa tggtttcact atgaaaaaaa aaaaaaaaaa aattnc 2156

```

<210> 225

<211> 1791

<212> DNA

<213> Homo sapiens

<400> 225

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taccggttcg gaattcccg gtcgaccac gcgtccggga actaaagccg ggtataagct 60
gttttctctg agttctgtgg agcagctgga tcaagtccac ggaagcaatg aaatcccgga 120
cgtctacatc gtggagcgcc tcttctccag cagcctgggtg gtggtagtca gtcacacaaa 180
accacggcag atgaacgtgt atcacttcaa gaaaggcaca gagatctgta attacagcta 240
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gtccatttat attcacaaca ttaaagacat gaagctgttg aagaccctcc tggatatccc 360
tgcaaaccac acaggtctat gtgctctctc tatcaaccat tccaattctt acctggccta 420
tcctggaagc ctgacttcag gggagattgt gctttatgat ggaaactccc tgaaaacagt 480
ctgcactatt gctgccatg agggaacact agctgccatc accttcaatg cctcaggctc 540
caaactagca agtgcgtctg aaaaaggcac agtcatccgg gtgttctctg tcctgatagg 600

```

```

gcaaaagctc tatgagttcc ggagagggat gaaaagggtat gtgacaatca gctctctagt 660
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caagctggaa caggtcacca acagtcgacc agaagagcct tcgacctgga gtggctacat 780
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cctctcaacg atccagaagt tgccacggct gctagtgtgc tcatccagtg gacaccttta 960
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gcttggtcga ggaacaacag aagagaataa agaaaatgac ctccagacctt ccttacctca 1080
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ttagccaggc aaagtctttt ttggctgtgg ctggaataaa tcattttatta cttgggagtc 1740
ccattttgga cactaataat aaaatcatgg caatgcattt ttgaggtttt t 1791

```

<210> 226

<211> 1525

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (44)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (591)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (601)

<223> n equals a,t,g, or c

<400> 226

```

cctccctccc gggcctgggc gccagcggga caggtagagcg gcancaggta tggcggtgac 60
ggtggatgtg gccgggccaag cgcctgggg cttccgtatc acagggggca gggatttcca 120
cacgccatc atggtgacta aggtggcca gcggggcaaa gcaaggacgc tgacctccgg 180
cctggagaca taatcgtggc catcaacggg gaaagcgcgg agggcatgct gcatgccgag 240
gccagagca agatccgcca gagccctcgc cccctgcggc tgcagctgga ccggtctcag 300
gctacgtctc cagggcagac caatggggac agctccttgg aagtgtctgg gactcgtctc 360
cagggtccg tgaggacata cactgagagt cagtcctcct taaggctctc ctactccagc 420
ccaacctccc tcagcccag ggcyygcagc cccttctcac caccacctc tagcagctcc 480
ctcactggag aggcrgccat cagccgcagc ttccagagtc tggcatgttc cccgggcctc 540

```

```
cccgctgctg accgcctgtc ctactcaggc cgccctggaa gccgacaggc nggcctcggc 600
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cccagcatgg actcggaagg gggaagcctc ctccctggacg aggactcggg agtcttcaag 720
atgctgcagg aaaatcgcgga gggacgggag cccccccgac agtccagctc ctttcggctc 780
ttgcagggaag ccctggaggc tgaggagaga ggtggcacgc cagccttctt gccagctca 840
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agtagggtcg aacacagaag tgggaaggag aggggtgggc caggggctaa tgggtgcact 1440
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aaaaaaaaaa aaaaaaaaaa aaaaaa 1525
```

<210> 227

<211> 1611

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (840)

<223> n equals a,t,g, or c

<400> 227

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ttttaattag aggtgactgt tactgcaaaa aaaggatact ctacaagaaa tataaatttg 120
atagcaagat aacaattttg agatgagaat gaatagtga cttgctgatt ctgtagcaaa 180
acctgggtgg gggttggggg ggggggtagt ttactttggt gtaaggactt gataacctgg 240
ctacagcggt ttctatgaaa tctacttgga tcccatgcct gaaatttgga agcatatgta 300
caaaaaatcat ttttacgttt tttttttaat aaatcattgt gtttgaccgt acatgtctaa 360
catttttttt ctaggatcca ttccgtaccg ttttttaagg gatatttggt taagacttta 420
cgtgttaatt ctttattctt gatgtgtact tagagaaact taagagggtc tgtggttttt 480
ttccctctc ctggtgccct gctagttgag tgttgaatta tatcccttac aggcaaaact 540
tttgaagtgg tggatgtggc tttttaaact cttaagtctc tgtgcatcca tctctgttac 600
taagcgaatt gtttatcatc ttgacatggt tggtcatttc tatgacaatt tacttcaaac 660
tgtgtactgt gtagttctat atagtttggt ttaagcatgt cattcatata aactgtttaa 720
aatttttcag atggcctagt ttcatccctc ttactgggtt gtctgtaatg aatgggttaa 780
aataaggggt atattttacc ctcaaagcg tttttgtact ttcagagcag gtttaaacgn 840
tttttttttt tttttcctat atccgaactg ttggcctcat ggaaatccct tcccgatct 900
ttgtagcacc atctactggc agaatggcag agtagctgag aaacaatttg tttaaaaact 960
tgcttaagac aattgcatca gatttggaag ttttgccatc aaaattcttt gcagaattgg 1020
aagttaacac atttgcttgt aactgagatg ggcttcacag gaatgtagtt gccagttcat 1080
atcacaaatg ccctttctat atgaggtttg aaaatgtaaa ctgctatgca tagcttgga 1140
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aagttgtaaa gcaaaatata tgtgtattct gcttggttaa caaatgtata tttgtagccc 1260
tttcctgcaa tagcattcaa gttgttggtt ataagagaag aacaaaagtg ataataaggt 1320
```

```

aaaattgcct ttctggatag aaatagagaa tagcaacggt tatggatatc acaaataaag 1380
aattcaattc ttacatgat tgagtgaag tatgtataac ctggtgggtg gggtcagagt 1440
accttttaac ctagtatgct taacttgatg ttaatattta acttaaatat ttgacttaca 1500
tggtgacggt gaaggctcaa agctatacta agaagctttc tgaaagattg ggcttttaaaa 1560
taaaataata ttttaatat gaaccatttt tacttcttgt cactgttcaa t 1611

```

<210> 228

<211> 1639

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1267)

<223> n equals a,t,g, or c

<400> 228

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tcgacccacg cgtccgcagt agtcggcgta ggccttaggt gggttcgtgc gccttctacc 60
tcgctgtttc ggttttcctg gtcctcgcgc ccttttctcc cctgttgag ctgggagcgg 120
acgaagcgcg aastgggatt ttttactgtc tcctgaagaa tttaacacaa acatggatat 180
cagaccaaat catacaattt atatcaacaa tatgaatgac aaaattaaaa aggaagaatt 240
gaagagatcc ctatatgccc tggtttctca gtttggtcat gtggtggaca ttgtggcttt 300
aaagaccatg aagatgaggg ggcaggcctt tgcataattt aaggaactgg gctcatccac 360
aatgccttg agacagctac aaggatttcc attttatggt aaaccaatgc gaatacagta 420
tgcaaaaaca gattcggata taatatcaaa aatgcgtgga acttttgctg acaaagaaaa 480
gaaaaaagaa aagaaaaaag ccaaaactgt ggaacagact gcaacaacca caaacaacaa 540
gcctggccag ggaactccaa attcagctaa taccacagga aattcaacac caaatcctca 600
ggtccctgat taccctccaa actatatattt attccttaat aacttaccag aagagactaa 660
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accagggagg catgacattg cttttgttga atttgaaaat gatgggcagg ctggagctgc 780
cagggatgct ttacagggat ttaagatcac accgtcccat gctatgaaga tcacctatgc 840
caagaataaa catttgggat agtcgtcttt aaaagacttg gtgttattta cagtgtttgt 900
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tgaaccattc aataaaaagt aagtaaaatt agatcacaga agctagtaga tgactgttgt 1260
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caggactgtt ctaaggttaa tatgcaatct ctttattgaa agacctccag ggtaaaaaatt 1560
ttttgatcta tagtctcttt tcccccttaa gacaaataga ctgattaata aagagttgcc 1620
agtgctaaaa aaaaaaaaaa 1639

```

<210> 229

<211> 1083

<212> DNA

<213> Homo sapiens

<400> 229

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cagtgcgcgg agtctgaggt cgctgtggac tgcccactgg tttgagacgg taacatctgt 60
tttgcaggat tgtgaaaaat gaggtcctct ttctagagta cctgacaggt tgcttgccat 120
ccagaagatg tttagctaag gccttgcccg agatggacag ccggattcct tatgatgact 180
acccggcggg tttcttgccct gcctatgaga atcctccagc atggattcct cctcatgaga 240
gggtacacca cccggactac aacaatgagt tgacccagtt tctgccccga accatcacac 300
tgaagaagcc tcctggagct cagttgggat ttaacatccg aggaggaaaag gcctcccagc 360
taggcattct catctccaag gtgattcctg actctgatgc acatagagca ggactgcagg 420
aaggggacca agttctagct gtgaatgatg tggatttcca agatattgag cacagcaagg 480
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attatcatcg ccaaaaagag aggactgtgc actagaaagt tgcagcccac agcccttcat 600
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tccttggaaat agtgagttgg gaggatggg agacagctaa ccaactgcat tacccaaacc 720
atattgcact tttagttccc tagttttcta ggtgagcttc attccctgaa aggaggatga 780
tgatatctag gcataaccta gcctgtgagg aacctagtta ggaaagacaa ctgacattta 840
ttgaatatca tgcactagtc cttacatat gtcatatttt aattatagaa atcagtagca 900
aaaagaatct tggggatttt ccactgact tccctggcca tcttatccca tccttgact 960
accagaagat tcatacactt ttgagactcc agtgagacgc tgttttcacc ccttcctcct 1020
cctagcctct ctcccaaaaa gtaaaacaca atgctgaaga aaaaaaaaaa aaaaaaaaaa 1080
aaa 1083
```

<210> 230

<211> 359

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (246)

<223> n equals a,t,g, or c

<400> 230

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gtgacggagc gcggtgcgcg cggcagggcc cggagtatcc cgctttcttt ggaggaaacc 60
accgcatcat atctgcgctg cggcagaggc aggcaagtcc ctacgctgga ggggcagcat 120
gctggcagca cttggggagg cggcgcgcta agggattcac gctgtaactg ggaccgcagc 180
agggaactac aatttccata gtgctccgcg ccctccagc tggtctact gccggcgacg 240
cgttgngtac acytggggat ttgttagtct tacatggstt tgcgcctcct acctggaagc 300
gggccagcga ttggtaccag ttcagacatg ggtacacgtt tgaacagggc cgccgcctt 359
```

<210> 231

<211> 355

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (333)

<223> n equals a,t,g, or c

<400> 231

```
ggcagagggt ttctttctca taagaatgaa atcttgaaa ttgctctgga tcaaaaagga 60
```

```
cttaccaatg atagaaaaat tgctttcatt gataaaaaata gagatctctg tatcacttct 120
gtgaaaggat ttgggaagga agaacaaatt atcaagcttg ggaacaatgg tgcatacttt 180
ggcatggaac gatacatgca atatcctttg tggacttcaa gatactcgat ttatagtgtg 240
gtattacccc aatacagttt atgtggacag agacattttg cctaaaacat tatatgaaag 300
ggctgcaagt ggaatttagt gaaaaatgcc ccntattgtg gagttttgtt gggaa      355
```

<210> 232

<211> 374

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (287)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (323)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (332)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (334)

<223> n equals a,t,g, or c

<400> 232

```
ggcagaggga ggcctggggc tctctgcctg ctgtagccgt ctgccgcgcc ctgttcctg 60
cagctgtcca gttatctttt gactgccaca tatggacccc aaaagatctc aaaaggaaac 120
tgtcctcatt acaggaggaa gtggctatth tggttttcgc ctgggctgtg cctgaaacca 180
aaatggagtc catgtgattc tgtttgacat cagcagccct gctcaaacca ttccagaagg 240
aatcaagttt atacaaggag acatccgcca cctgtctgac gtrgagnaaa gccttccagg 300
atgcagacgt camttgtgtg ttncawatt gncncttatg gtaatgttca gggcgggagc 360
aaactcaatc gaaa                                     374
```

<210> 233

<211> 432

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (288)

<223> n equals a,t,g, or c

<400> 233

```

aaaaaccaaa aaaaaaaatt tttgaaccaa acaaggggaa aaaaaggagt tggggcaaaa 60
caggaggcgt ttccctaccc gcatacatcc ccgtccccga gacacccaat cccccaccc 120
ccagcctgcc cgcgcctccc gccccagct cctcgccctg gggacagctg gcagccccgc 180
gcggaaccaga cacaaagccg atcaatcccg gaggcgtggg ggcggaggga cgaccgcgcg 240
gggctttccc gggcgtgct ctctcctgc tgccccctcg ctaggacncg gcggacgcct 300
cgtctgggtt tcacgcccct tagcccctac cccacaccc ccaaaacaga acagaccccc 360
atccctgggc tggaggaccc gcctcttggc agccagctga gaaggcgccc cggggagggg 420
gaaacctctg cc 432

```

<210> 234

<211> 366

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (192)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (251)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (320)

<223> n equals a,t,g, or c

<400> 234

```

gggcagtagg agtatgcagc cctccccaga cacctgamcc tgctggtgcc ttgatcttgg 60
acttcccagc ctctgaagc atgaggacag aaatttcogt gctgtataga ttaccagcc 120
tatgctgttc tggtattctt camaagcaga tggagacgga cggatcagca mcctccacam 180
ggggaactga angacggggc gaggtcagcc cggcaatagc aaaccaggcc aggggcgggg 240
gtggctgaca ncaggcaggg gggttactag gaacagggtca tgaaaggccc tcttacagag 300
gtgggcctgc agcaggcatn agcttaaaagg atgggtttgg agcttcagtg tgggttggag 360
ccagag 366

```

<210> 235

<211> 428

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (370)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (383)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (405)

<223> n equals a,t,g, or c

<400> 235

```
gtcacgagct cgtgcactct acgggaggggt agctccagct gcagccagag tgtggccctg 60
aagacatcag agagcagggc actcccacct gagagggagg ggaacaaaa ggagaagcct 120
agagcaggca gggcttgctt tgtttgttg tttggtttt ttagttttat tttcttttc 180
agagaagaca gtttcaagct ctctcttaag taagggtgga gccactggag ggcatgaact 240
gaggcgtgag atgttatgat ttactaatga acaagatcac tctggccact gagataggag 300
tgggaccaca agaaggaagg gttagaaggy tgttggttc accaagccaa grgttgwtgg 360
cgtttgaacn ggggctttac agnaaaaagg gttccaaaaa gtttnatttc tggatatttt 420
gaagttgg                                     . 428
```

<210> 236

<211> 966

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (896)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (956)

<223> n equals a,t,g, or c

<400> 236

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ctacagctgg ccctggcagg tttccctgca gtatgagaaa agtggaagct tctaccacac 180
gtgtggcggg agcctcatcg ccccgaytg ggttggtgact gccggccact gcatctcgag 240
ggatctgacc taccaggtgg tgttggtga gtacaacctt gctgtgaagg agggccccga 300
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tgtggcctgt ggcaatgaca tcgccctcat caagctctca cgcagcgccc agctgggaga 420
tgccgtccag ctgcctcac tccctccgc tggtgacatc ctcccaaca agacaccctg 480
ctacatcacc ggctggggcc gtctctatac caatgggcca ctcccagaca agctgcagca 540
ggcccggctg cccgtggttg actataagca ctgctccagg tggaactggg ggggttcac 600
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tgaggagacc ctcaactgcc ccacagagga tgggtggctgg cagggtccacg gtgtgaccag 720
ctttgtttct ggctttggct gcaacttcac ctggaagccy acrgtgttca ctcgagtctc 780
cgcttctatc gactggattg aggagaccat agcaagccac tagaaccaag gccagctgg 840
cagtgtgat cgatcccaca tcctgaataa agaataaaga tctctcagaa aattcnaaaa 900
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaangggg 960
ggggggg                                     966
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<210> 237
<211> 697
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (473)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (693)
<223> n equals a,t,g, or c

<400> 237
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cgctgggtgtc atctgctcag cttcccagtc ccagccgaca cccagcccag acacttggcc 120
aacctcwcrt gcatcaacag caggatctga atccactttg gccctgagac tggatgaatgg 180
aggtgacagg tgtcgaggcc gagtggaggt cctataccaa ggctcctggg gcaccgtgtg 240
tgatgactac tgggacacca atgatgccaa cgtgggtctgc aggcagctgg gctgtggctg 300
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<210> 238
<211> 2267
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (250)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (824)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2267)
<223> n equals a,t,g, or c

<400> 238
ccgtgccctg cccgcccggc cacttcccgc ccatgagccc cgacttcacc gtcttcatga 60

```

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```

<210> 239

<211> 767

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (748)

<223> n equals a,t,g, or c

<400> 239

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gcccaatacgc gcagtatgag cttcaacccc agcacaccag gggccagtta tgggcctgga 120

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```

agcaagagcc cagaaattcc caattgagaa ttgtgttagt gggtaaaacc ggagcaggaa 180
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aatccattac caagaagtgt gagaaacgca gcagctcatg gaaggaaaca gaacttgctg 300
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aatttgcatt actacttaag ggaagctcca gaagacattc aagacttgat ggacattttc 600
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```

<210> 240

<211> 1718

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (71)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1505)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1632)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1656)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1715)

<223> n equals a,t,g, or c

<400> 240

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gaccctcaaa ggccacggga acaaagtcct gtgcatggac tgggtgcaaag ataagaggag 420
gatcgtgagc tcgtcacagg atgggaaggt gatcgtgtgg gattccttca ccacaaacaa 480

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ggagcacgcg gtcaccatgc cctgcacgtg ggtgatggca tgtgcttatg ccccatcggg 540
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caaaaatgaa aacatggctg ccaaaaagaa gtctgttgct atgcacacca actacctgtc 660
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<210> 241

<211> 3599

<212> DNA

<213> Homo sapiens

<400> 241

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gtccacgccc ccgttacctt cgccaggacg ttccaggtctt ctctctcccc cgcccagtg 180
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<210> 242

<211> 2887

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2819)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2850)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2883)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2885)

<223> n equals a,t,g, or c

<400> 242

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accagctca ggggctttgg aattctgtgg ccacactgcg aggagatcgg ttctgggtcg 180
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agcggccttg c acggctgacg caggctcggc gccggccttg ccagttcccc ggtaaccac 2340
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tggactgacg acttgagtgc tcagtagtca gactggatag tccgtctctg cttatccgtt 2460
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ccccaccctc agatgcacat gagctggcgg gattgaagga tgctgtcttc gtactgggaa 2580
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aaccagtggt tttaggagca tgagtgccgt gtgtgtgcgt cctgtcggag ccctgtctcc 2760
tctctctgta ataaactcat ttctagcara aaaaaaaaaa aaaaaaaaaa aaaaaaana 2820
aaaaaaaaaa aaaaaggggg gccgccaan aggatcccc ggggggcccc agcttacgcg 2880
tgncngc 2887
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<210> 243

<211> 1253

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (109)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (415)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1059)

<223> n equals a,t,g, or c

<400> 243

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cggaacatta ctctatccc tgcacacca cgaccatgst gccgcgcagt gcctactggc 60
accacatcac tgggtcccag aacatcgccg aagcctccag ctatgctgnt gaggggtatg 120
gggcagccca ggccagctcg gaaacagacc tcctcaacag attcatcctg ctaaagccaa 180
agcccagcca gggggacagc agtgaggcca agaccccatc ccagtgaacca cagtgtctggc 240
gagcaccgat gactgctggg ggctgcctgc tgcggggctg gctgcagtgt accgtggaca 300
gcctcagggg gctgtcggcc aagagcctgg agaaaggag caagctgccc cctccttgcc 360
cccaaggwtg aggstggact gaggcaaagg gctggccaca ccacctgagc atgtntkaag 420
gggttgagc taccgtggga ctatatactg ttaatgatit taatatatat ggcttatgac 480
atactctgta tcaatgagat cccctcaccc tcaccccatc cttccccacc aatacacaca 540
aattttttaa tcccatgacc aggccacggg caaggctgtt tttgagtatg agtgcagtcg 600
tgtccatcct ccatggcaca gccctcctgc tgccaggacc tgcttgaact accagggcca 660
caggaggggg ataatacagag cttgaggctg gcactctgac tgctggcttt tcccaaacag 720
cccaagggcc ggaacagcag gtggcttctc agttcctctg ggcttgaggt gacacaggaa 780
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cttctctgct ttagagctgg gaagatgccc ctggggtagg ggtgctgatt acctcagcca 960
tgtggaggaa ggctggagct tgttcctgcc ccagkaatag gccaggaggg aaggccgcga 1020
caggactgcc gtggggagca cccctgctgc cccctctna ctgaccaggg gtggacaatg 1080
```

```

cccaagcaga gggagccccc ttgccctggt tggccaccct ytgccagcc aaaagcactc 1140
tgaaaaccaa saccttccca ttctctctc cccacatggt gctgaggctc cctgstgcaa 1200
tgcaattaaa gcaattgatt ttctagtgtt ggtatttgtt gactaccatg cag          1253

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<210> 244

<211> 1602

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (7)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1579)

<223> n equals a,t,g, or c

<400> 244

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acgggaggct gggagaggat gagaggctgc cccatggctg gaggcagcgt ccgtgtgtgc 180
agtcaccatc atcaaccccc attcggcccc tccccagat gcgctggtga caggggcttc 240
ttggatgtca aatcatgttg taggaggggt cagactgcgg gcttctgtgg ggagcagtac 300
tactgtgtct gtcggcagtg gccatgggac cctcagcccg tcctgtacat ggagcaggg 360
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gcccaccccc aggtctgtgt cggttgaga ggggatgact tcaccaccac ctgaccttcc 600
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aacattttca gcacaattac agtgggggca cgggcccgtt ggctccagct gggttttccc 1320
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tggcgtagcc caggaacggc atgtgggtgg gtctctgacc tgcttgtaga gggacttgag 1500
ggacctcatc ccgatggccg aggcaggggc tccccacggg ataaaaggat ccggcctggc 1560
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```

<210> 245

<211> 1284

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (21)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (63)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (73)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (170)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1229)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1272)

<223> n equals a,t,g, or c

<400> 245

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cggaaggatt ggggttcacc ngcccttcaa gtggtcttcc ttcaccccc caaggcccag 60
tgncagttgg aanttgggtc gaagatcgct tatggcacca gttcaagggg gcgtccgggt 120
catcgtgcag cctcccgaag actgtggctc ggggcttcag ctcttcagn ctttactgt 180
gcaccgcagc cctgtcacca agatcatgct gtcggagaag cacctcatct cagtctgtgc 240
cgacaacaac cacgtgcgga catggtctgt gactcgcttc cgcggcatga tttccacca 300
gcccggctcc accccactcg cttcctttaa gatcctggct ctggagtcgg cagatgggca 360
tggcggctgc agtgctggca atgacattgg ccctacggt gagcgggacg accagcaagt 420
gttcatccag aagtggtgct ccagtgccag ccagctcttc gtgcgtctct catctactgg 480
gcagcgggtg tgctccgtgc gctccgtgga cggetcacc acgacrgcct tcacagtgtc 540
ggagtgcgag ggctcccggc ggctcggtc tcggccccgg cgctacctgc tctactggca 600
ggccaacggc agcttgacca tgtgggacct aaccaccgcc atggacggcc tcggccaggc 660
ccctgcaggt ggctgacgg agcaagagct gatggaacag ctggaacact gtgagctggc 720
cccgcggct ccttcagctc cctcatggg ctgtctcccc agccctcac cccgcactc 780
cctcaccagc ctccactcag cctccagcaa cacctcctt tctggccacc gtgggagccc 840
aagcccccgc caggctgagg ccggtggccg tgggtggggc agctttgtgg aacgctgcca 900
ggaactgggt cggagtgggc cagacctccg acggccaccc acaccagccc cgtggccctc 960
cagcgtgtct cggactcccc tcacacctcc caagatgaag ctcaatgaaa cttccttttg 1020
aacaacgcag ctgccatgat gccttgggat gccctggctc tgggggactc aggtgcctcc 1080
```

```

ctgattcctg tgggaacccc gggttcaggg ccagggcctc cttggaataa atggttattg 1140
ttactaggtc cccaccttcc ctcttttctg gaagccaaag tcascctccc caataaagtc 1200
ctcactgcc aaaaaaaaaa aaaaaaana aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1260
aaaaaaaaa anaaaaaaaa aaaa                                1284

```

<210> 246

<211> 2094

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2086)

<223> n equals a,t,g, or c

<400> 246

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ttttctctgg agaaccacaag ggcttggggg ggggaagcagt ctctccttgg gattctgcgg 60
ccgatgtggg atagaagagg tagcatcctg gaagccagcc tctctgggga acatgagccc 120
ccttcctcgg ggggctgcct tgcgtcttag aggagggaga gcagagagca cgcacacctg 180
gtcctctggc ctctgagctt cctgatacag gatctgagca tgtccctggg attctgagct 240
gccaacaggg ccctgggtag tcacatcttg tactccccct tgctgtcccc gaggtagtgg 300
caggagtgg gccagcccc actaagtggc aggggaagac tcacgattgg gaagctacct 360
ctttgggaat cttggatgtg gtgatctcaa gttcccacag gccacctcct tctggccact 420
cactgctggg acccaggcac ctcccttctc catcctctct ggattgtcag taatgtcctg 480
gaacagaagc ctgtrggatg gccttggcac ggagaagccc tggggtcagt gtcgtgcacg 540
gatggcggca gtgttgaacc caggaggctg aaccggccc accacggaag atgagtgcac 600
ggcaaccgcc tgccttcacg tcgctccact tggtaacccc aaggtctggg ctgttctagg 660
tattgcttca cgtgccccag caagccctta acaagagggc ctgggtccct gaagaaccaa 720
tcccaggaag gggccttgat ccctccgcct tgctgagagt gaacctcgt ctctcctcac 780
cctccatttc atttctggga attggggctt agtttcgaac ctttggaag gctgttctta 840
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gtcccaaac ctgggagtg ataggtacta aatcaagcag tgcaacttgt aattaagcag 1920
ctgcagtgtt tacatgtttc ttaagtgtc atcttttcaa tggctgtatt aaaagaagaa 1980
cgtttgtttt aatggtcttt ctgattaaag aaagccctg tggctttgga ggcattgtgc 2040
ccacgggtcca ccaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaanaaaa aaaa 2094

```

<210> 247
<211> 1019
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (6)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (111)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (879)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1010)
<223> n equals a,t,g, or c

<400> 247
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tgatcagggt tatctccaac cccatggccc cctcctggtg gggcttcctg gtggctgggc 180
tgatgttcct gtgctccatg atgcagtcgc tgatcttaca acactattac cactacatct 240
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tgatgaccca gcgcttcctg gaccttgccc ccttcctcaa tctgctgtgg tcagcaccac 420
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ccagtgtgtc tctgaaacgg atccagcaat tcctgagcca agaggaactt gacccccaga 960
gtgtggaaag aaagacatct tcccaggcta tgcataccat acacagtggg acctttacc 1019

<210> 248
<211> 1500
<212> DNA
<213> Homo sapiens

<220>

<221> misc feature
<222> (999)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1065)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1280)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1343)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1400)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1463)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1496)
<223> n equals a,t,g, or c

<400> 248
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ccgcgccacg gctctccccc acaccgcctt attcgggtcg agaccccggg gcccccggcg 180
ccgcctgctg atgagcggat ctccggaccc ccgcgcagca gcgataggct agctatccta 240
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tgggaagcag ccggtttttn ggggggttg ggagaggaag gggaggggtt cgggcaaagg 1440
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<210> 249

<211> 2301

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2297)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2298)

<223> n equals a,t,g, or c

<400> 249

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taaattgaaga gctatttata tatattattt ttttttaaga aaggaggaaa agaaaccaa 180
agtttttttt aagaaaaaaa atccttcaag ggagctgctt ggaagtggcc tccccagggt 240
cctttggaga gaactgttgc gtgcttgagt ctgtgagcca gtgtctgcct ataggagggg 300
gagctgttag ggggtagacc tagccaagga gaagtgggag acgtttggct agcaccaccg 360
gaagatgtga gagggagcaa gcaagggttag caactgtgaa cagagagggtc gggatttgcc 420
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cccaggttct cctccccaca gccagtcctc tttcctggat ttctaaactg ctcaattttg 1680
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agttcacttt gggcccacag acccaagagc taattttctg gtttgagggt tgaaacaaa 1860
ctgtgaatca ctgcaggctg tgttcttgca tcttgtctgc aaacagggtc ctgccttttt 1920
agaagcagcc tcatggtctc atgcttaatc ttgtctctct tctcttcttt atgatgttca 1980
ctttaaaaac aacaaaaccc ctgagctgga ctggtgagca ggcctgtctc tcctattaag 2040
taaaaaataa tagtagtagt atgtttgtaa gctattctga cagaaaagac aaagggttact 2100
aattgtatga tagtggtttt atatggaaga atgtacagct tatggacaaa tgtacacctt 2160
tttgttactt taataaaaaat gtagtaggat aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 2220
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 2280
aaaaaaaaag gggggcncc c 2301

```

<210> 250

<211> 2117

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (61)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (63)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (793)

<223> n equals a,t,g, or c

<400> 250

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<210> 251

<211> 1446

<212> DNA

<213> Homo sapiens

<400> 251

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<210> 252

<211> 2050

<212> DNA

<213> Homo sapiens

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<221> misc feature

<222> (596)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1899)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1922)

<223> n equals a,t,g, or c

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<221> misc feature

<222> (1944)

<223> n equals a,t,g, or c

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<221> misc feature

<222> (2012)

<223> n equals a,t,g, or c

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<221> misc feature

<222> (2042)

<223> n equals a,t,g, or c

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<210> 253

<211> 2529

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2523)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2529)

<223> n equals a,t,g, or c

<400> 253

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<210> 254

<211> 1678

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1676)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1678)

<223> n equals a,t,g, or c

<400> 254

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<210> 255

<211> 966

<212> DNA

<213> Homo sapiens

<400> 255

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aaaaaa 966

<210> 256
<211> 3091
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (3040)
<223> n equals a,t,g, or c

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<210> 257

<211> 2952

<212> DNA

<213> Homo sapiens

<400> 257

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aaaaaaaaaa aa 2952

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<210> 258

<211> 2217

<212> DNA

<213> Homo sapiens

<400> 258

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gttcaacttt acaaaatttc ttggaaaact ggcagtattt tgaactgcat cttctttggg 360
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<210> 259

<211> 1240

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1240)

<223> n equals a,t,g, or c

<400> 259

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accaacaaca tggacggcca catcttcgcc agcatcgaca tgcctgccat caacaagggc 180
aacaagaaag tcacggagga ggacttctac aagctgggtc gtgagttcac aatcaccaa 240
gggctcagag gcgccaagac gacctttgat gtctacacyg agtcctgggc ccaggaccca 300
tcccaggaga ataagaagaa gactgtgggt gactttgaga ccgatgtcct cttcctgggt 360
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<210> 260

<211> 610

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature
<222> (559)
<223> n equals a,t,g, or c

<400> 260
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ctcatctgca gcttccacag agtgccaagc cctcactca gcccatccct gggctctgct 480
ccggggcccc aagaccagc aggaggagcg ttctgcctgc cccytcccac ctyccctgca 540
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aagggcggcc 610

<210> 261
<211> 2116
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (4)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (7)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (16)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (25)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (35)
<223> n equals a,t,g, or c

<400> 261
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accacagct aagggccatc ttattgaacc cccaagaagt caaatgtagt catccctaac 180

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<210> 262

<211> 1557

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (9)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1347)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1527)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1533)

<223> n equals a,t,g, or c

<400> 262

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<210> 263

<211> 1654

<212> DNA

<213> Homo sapiens

<400> 263

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<210> 264

<211> 1168

<212> DNA

<213> Homo sapiens

<400> 264

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<212> DNA
<213> Homo sapiens

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<211> 414
<212> DNA
<213> Homo sapiens

<400> 266
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<210> 267
 <211> 1452
 <212> DNA
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<210> 268
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 <212> DNA
 <213> Homo sapiens

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 <223> n equals a,t,g, or c

<400> 268
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<211> 764

<212> DNA

<213> Homo sapiens

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<222> (625)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (739)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (747)
<223> n equals a,t,g, or c

<400> 269
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<211> 532
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (467)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (513)
<223> n equals a,t,g, or c

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<210> 271

<211> 1397

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (109)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1242)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1378)

<223> n equals a,t,g, or c

<400> 271

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<210> 272

<211> 527

<212> DNA

<213> Homo sapiens

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<220>

<221> misc feature

<222> (501)

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<220>

<221> misc feature

<222> (507)

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<400> 272

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<210> 273

<211> 805

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (5)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (792)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (794)

<223> n equals a,t,g, or c

<400> 273

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aaaaaaaaaa ananaaaaaa aaagg                                     805
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<210> 274

<211> 1953

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (196)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (522)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (524)

<223> n equals a,t,g, or c

<400> 274

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gccctggtgg ctcccttggg ctgtttcatt ctaaaacgaa gngnctgagt tcggctgtca 540
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<210> 275

<211> 2376

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (86)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (275)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1965)

<223> n equals a,t,g, or c

<400> 275

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<210> 276

<211> 2439

<212> DNA

<213> Homo sapiens

<400> 276

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ccctcttttt ggaaagtacc aacaagattt ataaggatga catttccaat agctcctttg 180
tgaatttcca gatatgggat tttcctgggc aaatggactt ttttgaccca accttgact 240
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ctccaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaag 2439
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<210> 277

<211> 1889

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1076)

<223> n equals a,t,g, or c

<400> 277

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cggattcgcg ttcgtggcca gcgagcctct cgcttcaag cccctgtcct tgttgctgcc 420
ccacactcca ctttctttga cccattgtt ctgctgccct gtgacctgcc caaagttgtg 480
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```

<210> 278

<211> 636

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (608)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (632)

<223> n equals a,t,g, or c

<400> 278

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ttctccattc agtatggaac cgggagcttg tccgggatca ttgggagccg accaagtctc 540
tgtgggaagg actaaccgtg gttgggccag cagtttgggg ggaaagtgtt cacagagcca 600

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636

<210> 279

<211> 2861

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2861)

<223> n equals a,t,g, or c

<400> 279

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<210> 280

<211> 1506

<212> DNA

<213> Homo sapiens

<400> 280

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cagggtgga tccagcaggg ccgtgcttcc aggatgaacc tgaggagggt cggttggatc 660
catctgacgc cgtgtttgtg gatgtgatc acacagattc ttctccata gttccttccc 720
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aaaaag 1506
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<210> 281

<211> 1693

<212> DNA

<213> Homo sapiens

<400> 281

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```

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ggcggaccgg cgctgggcag ccaggacagc cgcggtagcc ggggccgag ggcagcagcc 120
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tcgctggagg cggtgcgcag gaagatccgg agcctgcagg agcaggcgga cggcgctgag 240
gagcgcgcgg gcaccctgca gcgcgagctg gaccacgaga ggaagctgag ggagaccgct 300
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gcccaggagc gtctggcaac agctttgtag aagctggagg aagctgagaa ggcagcagat 420
gagagtgaga gaggcataaa agtcattgag agtcgagccc aaaaagatga agaaaaaatg 480
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gcycatgrgg att 1693

```

<210> 282

<211> 1223

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1159)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1196)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1208)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1223)

<223> n equals a,t,g, or c

<400> 282

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acaaggcgga tgtggccatg agcaagattg agcacttcat gcctttgctg gtacagcggg 180
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aacacagcaa cctctacttg gtggccacca catcgaagaa tgccaatgcc tccctggtgt 300
actccttcct gtataagaca atagaggat tctgcgaata cttcaaggag ctggaggagg 360
agagcatccg ggacaacttt gtcacgtct acgagttgct ggacgagctc atggactttg 420
gcttcccgcga gascaccgac agcaagatcc tgcaggagta catcactcag cagagcaaca 480
agctggagag gggcaagtca cgggtgccac ccactgtcac caacgctgtg tcctggcgct 540
ccgagggtat caagtataag aagaacgagg tcttcattga tgtcatagag tctgtcaacc 600
tgctgggtcaa tgccaacggc agcgtccttc tgagcgaat cgctcggtacc atcaagctca 660
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gcgtgcggct ctctcgcttt gacaacgacc gcaccatctc cttcatcccg cctgatgggtg 840
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ttgagatncc ctatttaacg ttn 1223
```

<210> 283

<211> 490

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (57)

<223> n equals a,t,g, or c

<400> 283

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ttttgagagg tatgattctt tctagagatt ttttctcatg gctactatta gatcaggaat 120
gggtgattgg agattattag attctagggt aacttctacc actttaccct aatacataaa 180
acttttccct aaataaatga tggaaggaaat aatacttgggt tacctggcat tatttttcag 240
taagaaaaaa gctttactaa ccactacatt tatggaaatt tgtaggggta agtattttat 300
aggtcataaa aaacaccata atataacgaa tctcattttc tttaaatgtg aattaaatcc 360
taacagtcac ttttataaaa tgaccatagg ctaaaatctt acgtgtaagt actactacaa 420
taaataatth ctgaaacctt taaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 480
gggggggggc
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<210> 284

<211> 3009

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (412)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (548)

<223> n equals a,t,g, or c

<400> 284

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agtcaatcgt	tcatctgtca	ttggtactgt	aaaataagct	gtggtctatt	tccactgttt	180
aattttctac	tcagttctac	caaataggat	gtcatgtttg	acatttttga	tagtgacttt	240
ggggtctkct	tcactgaaag	caccttagaa	ctgtactata	agaaaacatt	tcccctatgt	300
ataattatat	gaatgtgatg	tttattgctt	attaatttat	aattcagtca	ttctctatat	360
aggacttctt	aaaatttaga	agggaaatct	agctacttca	aattgtctgt	tnaaatttat	420
tatgcccaaa	tcaacctctg	aaaaaagggt	tttccaggaa	gatttacatt	taggtttaat	480
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aaattcanta	actttttaga	atgttaaatg	aagacactgt	ttcctaacat	cagtggagata	600
catctttgaa	tttaaacatt	catatttact	gagtacctac	taggtacca	gtactctttt	660
aggcactgga	aatacagtga	tggacaaaac	aggtaaaaaa	tcgctgcccc	ctcagagctg	720
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aaaactagtt	gattttaaaga	gtttttttgc	acaacatttc	aatttatatt	gtgaacttag	960
aaattaactt	acaatctaac	cagccatcat	atcatatcct	atcaggctag	atatctcaat	1020
agtagactga	atacaaagct	aatttttttt	acatgtcaat	attggcaca	actggaatga	1080
aagaatagtt	tgattcagac	ctgctccact	atgtgttgct	aaaacacatg	ctatgagcac	1140
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acatttcaca	cttgataaca	tatgtgcatt	tactgtat	cttggttaagc	atatttttgg	1260
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ctaccattat	tgtttgat	ctctttgtca	agtgtataga	acctgtcata	cattcatgat	1440
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cggttgggat	ttcaaggtca	gtgacgacgc	atttcctccc	agtacagacc	ccccagcccc	1560
ccttgctgga	catggggagg	cagagagtca	cttgaccatc	cagaaataca	tgactacaag	1620
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aagtagtaaa	taaacatttag	gtaatctgca	gattacttca	aatgggaaaa	atctttttgt	1980
agactctata	gtacctctc	tattcactag	cttctgaaaa	gggaggagta	tttttagttt	2040
gacaatttaa	taatttaaaa	acaagacatc	tccaggtagg	aaaaaatgaa	agctatttca	2100
tgcaaatcatt	atctaattta	gcttaaaaagt	gaaagtggta	atactgttgg	tttctgtaaa	2160
tgttgtaggg	ttttaaactt	tataattact	ttaatat	tgataactag	aaatctagta	2220
ttgccataaa	ggaaactaag	tgcccatcaa	agatttgttt	gggtataaata	aagaattatt	2280
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gaaagcaaca cagccttaaa ctcaatgctt ttgctttatg acatgggaat gttctgtcat 2520
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actgcctatt taaagaaaag aatgaacgct gtgcatcaaa gtgtttgtat gttcgtagct 2820
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tcttgaaaca taggagaaac aggattcatg tgtatctctt taccatgcac aaaatctcaa 2940
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agttctctc 3009

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<210> 285

<211> 876

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (740)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (760)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (813)

<223> n equals a,t,g, or c

<400> 285

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agccctacaa atgtgaggtc tgcagcaagg ctttctccca gagctctgac ctcatcaaac 180
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caccgggttc cacagtgggc ggagcgggccc ttnacaagtg gcgatggatt gcgggaaagg 840
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<210> 286

<211> 861
<212> DNA
<213> Homo sapiens

<400> 286
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atgtgcatcc aaaaaaaaaa a 861

<210> 287
<211> 1068
<212> DNA
<213> Homo sapiens

<400> 287
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gacaccatgt agagaatttt ggtctcgatt cagaaaagag aaagagccag tggttgttga 180
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cacaccacct gaagatctcc agagtcgttt ggaatcttac gttaaagaag tttttggttc 300
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agatcttttg atactttacc atgtgaaata ctaccagaac tgttctctaa acccactttt 660
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agttttgaga gggcactgtc aacttgggtt taagacagga ggacattgca agttcacacc 840
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<210> 288
<211> 2256
<212> DNA
<213> Homo sapiens

<220>

<221> misc feature

<222> (42)

<223> n equals a,t,g, or c

<400> 288

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ggtggggcac ccgggttcaa gacatcttca cagctgggaa gtccttgggc ttggccctga 240
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atgcatttga gaatttccag gaacctgaca tcggcctcgt cgcactggct ttccttcagg 360
gctcccttgc ctatggaggc tggaaacttc tgaattacgt gactgaggag cttgttgatc 420
cctacaagaa ccttcccaga gccatcttca tctccatccc actgggtcaca tttgtgtatg 480
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ccctctgccc tcttttctgc ccttccccat catacctgca cccaccccag ccagggtccc 1800
ctgtccagaa ttcggttctc ctcaggacgc caactcccag agctaaggac caaggagaag 1860
aacagcctct ccacccccaa gccaggcggg tgagggaacat attgagaaaag gttcagattg 1920
cagaaaccca gccctgcccc tgccctcctg atccagcccc caacatgggtg ccaaagcttc 1980
cagaagccaa aaagcttctg atttttaagg tagtgggcat ctctctctta atgacgaagc 2040
tgctcagcaa ctccacctgc ccggcgagg aaggagcagt cccctgctat ccctgcagcc 2100
actcccagca caccgcgaca cagccagcac caccgtcccc accgtgcact tctyctctct 2160
gggccttggt ttggggacca gggtagggag ggattcccca aggcctttca gggcttgagg 2220
ttcagaggcc agattcagct ttaagggtta cttcca 2256
```

<210> 289

<211> 331

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature
<222> (273)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (279)
<223> n equals a,t,g, or c

<400> 289
agtatctatc ccaaggattt tagcatttat cccaagagca tttatccaag agcatttatc 60
ccaaaagtat ttatcccgat gattttagca tttatccgaa gagtatattat cccaaggata 120
gcatttatcc caagagcatt tacccaagag catttttccc aagactattt atcccaaaga 180
tttttagcatt tatcccaaga gcatttacct aagagcattt atcccaaaga attttgtttt 240
gttttggttt gtttttttga gacagagtct ttntctgtna cccaggctgg agtgagccga 300
gatcgtgccc actgcacttc cagtctgggc g 331

<210> 290
<211> 705
<212> DNA
<213> Homo sapiens

<400> 290
aatatcacca aactgattgt aaatgtgcgg ctgtagcaga catttttagtg tgggtggtgtg 60
cagccatttc ggccctacac ctgccagcct ggctacctta cagttgtgtt ccgatttttg 120
cgtctatgct tgggtgtgct cacttgctgc attttccagc atgcaaccag gaggtagcgt 180
aggaaaaagg gatgctttct tactttggaa gctctcaggg aagttggtgt caatttctcc 240
tccactgcct ggcctaccct gcactcccaa agattttgtg cagatgggta gttccatttt 300
ttaaaaaattg tgcagatatg gaaaattgtg acttacttca tgaccagaac tatctagaat 360
atgtgtgggg gtataaacat cttgcttaac caaatatcta ttaggcaga ggtaaccagg 420
agagaagcaa gacttgctgc cttaaaggagc ccaccatttt acttttcaca tttaatctgc 480
cacgttgaat caattggaat aaaacctgac tcgcagggtga ctggacagga aatcccaaag 540
ttccaccatt tctatgctta attttaacgt cccccgctt tttttttgt agaaaataaa 600
aacaagaaaa tcgttccaat gtaagatgtt tgttatagaa actttaggca atacagggtg 660
gtaataaaat gtttaataaa cttctaaaca cttttgtatt tggat 705

<210> 291
<211> 952
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (827)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (943)
<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (948)

<223> n equals a,t,g, or c

<400> 291

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aaggctaattg aaattgcatt ccaggtaggg gttaacgtca aatttccatg gctggtagct 60
gtgcttttgg catatcacag tggtgtgtca ctactacaag gtaaagcatc tacagcggag 120
aatgagcttg aaaatgagag acctattgwg aataaatatg cccatgagag catatttaaat 180
aagcctctat aacatgcagc caaaccagac attcactcct gcagagaaat gttgccctgg 240
agaaaaagaa atatataaag ataggctatc acccttcttt tgctgcagta ctaagcatag 300
caagaaatta gaatcattta cattggaaat ttgaaaattc cttttatata cacaacttta 360
ctgtgtataa ataaaaaata tttattaatg cagtgtatgc cgtcagttgt tttaggaatg 420
gcttctgcaa ttagaaaaat agcttgctag aatgtaaatg ttctgttact ggtaaatgta 480
ctgcacacat tcattggacg ttaaaacaag tgagtagcct tttttacctg ccagcagcat 540
ggctgtgtgc agccactagg ctgaggacaa taaattacca aaaattataa tgtaccgagc 600
tgaaaatgct cagtacatta tgtggcatat tctggatgtg atgagaaatc tcattgccat 660
ttgggacact gacatcccag aagtaatcca caactgcttt gcaaaagcaa agtgactgct 720
cagatgaaca gagcagagta ctactcact atggtggcat cagctgcaaa gcgaaaaatga 780
actgtcccat gatcatgttg atggttttct agatactgcc aacatgnnta ggctcttttc 840
tgatgtctga tggagttttc aaacacggaa cagacaccct tgatgtgggg ttttgctaag 900
gaacatrnga ggaacgggag gaaagtgtgc ccgggttcac acntcccnngg gg 952
```

<210> 292

<211> 604

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (557)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (580)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (582)

<223> n equals a,t,g, or c

<400> 292

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ggcagagtga aagaaggatg tktttgcttc tccttctgcc atgattgtaa cattcccaga 60
acctggaggc caggctatga cacagagtca atcaataacc agggagatct gtgaatatag 120
cccagtaggt ggggccttgc tgccatctgc catatgaccc ttccagtccc aggcttctga 180
agagacgtgg taagtgcggg gcagttttca actgacctct ggacgcagaa cttcagccat 240
gaaggtaaca ggcattcttc ttctcagtgc cttggccctg ttgagtctat ctggtaaacac 300
tggagctgac tccctgggaa gagaggccaa atgttacaat gaacttaatg gatgcaccaa 360
gatatatgac cctgtctgtg ggactgatgg aaatacttat cccaatgaat gcgtgttatg 420
```

```

ttttgaaaat cggaaacgcc agacttctat cctcattcaa aaatctgggc cttgctgaga 480
accaagggttt tgaaatccca tcaggtcacc gcgaggcctg actggcctta ttgttgaata 540
aatgtatctg aatatcnaaa aaaaaaaaaa aggcggccgn tntaaaagga tccagcttta 600
cgta 604

```

```

<210> 293
<211> 510
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (480)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (491)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (508)
<223> n equals a,t,g, or c

```

```

<400> 293
gtgtcccaa actcctggag tttccaccc tgagctgtta aaaacctgcc ctgcctgtca 60
cccatttctg tgccaccagc ccacccctg cctccactct cctccctgcc accttctgtc 120
cctgccatag gaatatgggg acaccgtgta caccattgaa gttccctttc acggcaagac 180
gtttatcctg aagggtgagt aggggagcgg gtgtcctgga gccccagaca gcacaggagg 240
ctccaggaag gtgccgagg gcccctctggt ggggtgcccc caccaagagg gaagggttg 300
tctgcccag cccatctggc accaccagc cctctgccgc cctgtcccag accttctgc 360
cctgtcctgc ggagctcgtg taccaggagg tgatcctgca gcccagagg atkgtkctkt 420
ggaaaagaca gtgactgcct gccagatcct gcagcgagt gaagacaaca ccctcatctn 480
ctatgacgtg nctgcagggg cttgcggncg 510

```

```

<210> 294
<211> 845
<212> DNA
<213> Homo sapiens

```

```

<400> 294
aattcggcag agctgacctg acaagccacc tcaagtggac aaggcactta ccaacagaga 60
ttgctgattt gctccttaag caagagattc actgccgcta agcatggctc agaccaactc 120
gttcttcatg ctgattctct ccctgatgtt cctgtctctg agccaaggcc aggagtccca 180
gacagagctg cctaattccc gaatcagctg cccagaaggc accaatgcct atcgctccta 240
ctgtacttac tttaatgaag accctgagac ctgggttgat gcagatctct attgccagaa 300
catgaattca ggcaacctgg tgtctgtgct caccaggcgg gaggggtgcct tcgtggcctc 360
actgattaag gagagtagca ctgatgacag caatgtctgg attggcctcc atgacccaaa 420
aaagaaccgc cgctggcact ggagtagtgg gtccctggtc tcctacaagt cctgggacac 480
tggatccccg agcagtgcta atgctggcta ctgtgcaagc ctgacttcat gctcaggatt 540

```

```

caagaaatgg aaggatgaat cttgtgagaa gaagttctcc tttgtttgca agttcaaaaa 600
ctagaggaaag ctgaaaaatg gatgtctaga actggtcctg caattactat gaagtcaaaa 660
attaaactag actatgtctc caactcagtt cagaccatct cctccctaata gagtttgcat 720
cgctgatctt cagtaccttc acctgtctca gtctctagag ccctgaaaaa taaaaacaaa 780
cttattttta aaaaaaaaaa aaaaaggggg gcgctctaaa gatccaagct tacttcgcgt 840
gcatg 845

```

<210> 295

<211> 1046

<212> DNA

<213> Homo sapiens

<400> 295

```

ctgcaggccc cggtcgggaa ttcccgggga agaagaggaa gaagaagagg acagccaggc 60
tgaagtcctg aaggatcatca ggcagtctgc tgggcaaaag acaacctgtg gccagggctc 120
ggaagggccc tgggagcgcc caccctctct ggatgagtc gagagagatg gaggtctga 180
ggaccaagtg gaagaccag cactaagtga gcctggggag gaacctcagc gcccttcccc 240
ctctgagcct ggcacatagg caccagcct gcctctccca ggaggagtg gaggggacat 300
cgctgttccc cagaaacca ctctatctc accctgtttt gtgctcttcc cctcgccctg 360
tagggctgcg gcttctgact tctagaagac taaggctggt ctgtgtttgc ttgtttgcc 420
acctttggct gatacccaga gaacctgggc acttgctgcc tgatgcccac ccctgccagt 480
cattcctcca ttcaccagc gggaggtggg atgtgagaca gcccacattg gaaaatccag 540
aaaaccggga acagggattt gcccttcaca attctactcc ccagatcctc tcccctggac 600
acaggagacc cacagggcag gaccctaaga tctggggaaa ggaggtcctg agaaccttga 660
ggtaccctta gatccttttc taccacttt cctatggagg attccaagtc accacttctc 720
tcaccggctt ctaccagggt ccaggactaa ggcgtttttc tccatagcct caacattttg 780
ggaatcttcc cttaatcacc cttgctctc ctgggtgcct ggaagatgga ctggcagaga 840
cctctttgtt gcgttttgtg ctttgatgcc aggaatgccg cctagtttat gtycccggg 900
gggcacacag cggggggcgc caggttttcc ttgtcccca gctgctctgc cccttcccc 960
ttcttcctg actccaggcc tgaaccctc ccgtgctgta ataaatctt gtaataaaaa 1020
aaaaaaaaa aaaaaaaaaa aaaaaa 1046

```

<210> 296

<211> 1916

<212> DNA

<213> Homo sapiens

<400> 296

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cggacgcgtg ggcgaacaga cgggtgcccta tggactgtcc aactacagag gaagcttccg 60
gggcaagagg tctcgggggc cacttccagg gaatctgcag ctctcacatc ggccacactt 120
gcgctgcgct tgtgtgggga gatatgacaa ggcctgcctg cacttttgca cccaaactct 180
ggacgtcagc agtaattcaa ggacggcaga aaaaacagac aaagaagagg aagggaaggt 240
tgaagtcaag gaccaacaaa gcaagcaggc ttttagacct caccatccaa agctcatgcc 300
cggcagtgga ctgcccctcg ctccatctac ctgccccgc tgcctctttc aggaaggagc 360
cccttaggag gacaggcctg cagcatcctg gtctcgggag gcttctgtca ttgtcacac 420
acagttcaga tttccacctc tttatagaca agaagtgaat ttgcctgggg cagaacaccc 480
accctaaagag tttccactta acaatacccc cccccacggc aagaatgccc aaatccgaat 540
gacccaggtt ttcctaata gtaaaatgat cccagatgtg ccccagagca tgacgcctgc 600
agytccggtt tcatgcagga aattgggttt ggagagtgtt ggcaagtgg aaagccactt 660
actggctttt gacatgactt ctcttgga gaataaggac tccaagctaa ctctttgcaa 720
atgtaaacac atgtccatct tgtaataaat gcaaaatgcc cgtgcagcag aagcatgcga 780

```

```

ctttcatatc cttgcctaga ataggctgca tgggtgatgt cagtgaagggc cacgagggcgt 840
cggcctttaga cacagatcat agctctwyag gagtttatga atttgaagct tatgggattt 900
tggcagagaaa attttcagct gtgcttgata cccacccaaaa gaatgtatct cgaaagaatg 960
aaggaagaag aaaaaaggat ccttgatgtt tgtgacaaga aaatgagaaa gttagtatct 1020
gcaatacaga gcttgttcct gttcagtga cagccctctg tattctgtat agacaccagg 1080
ccgatacaca gtggaggtcc caggccttgt ttgcaggaag ccgactgtaa agacagcccc 1140
agctcaaggc tattaggttg aatatttgct ttcattgagta aatgtggatc tttggggaat 1200
ggcttcaaaa taagtcacga acacaaattc tttgtaaatt atgtaaattc ctgtttatat 1260
aaattggcaa caacttatac cgtctgacag ttcaaaatct ctttcagctg cgctcttccc 1320
accgagccga gcttactgtg agtgtggaga tgttatccca ccattgtaaag tcgcttgcgc 1380
aggggagggc tgcccatctc cccaacccag tcacagagag ataggaaacg gcatttgagt 1440
gggtgtccag ggccccgtag agagacattt aagatgggtg atgacagagc attggccttg 1500
accaaattgtt aaatcctctg tgtgtatttc ataagttatt acagggtataa aagtgtgac 1560
ctatcatgag gaaatgaaag tggctgattt gctggtagga tttgttacag tttagagaag 1620
cgattattta ttgtgaaact gttctccact ccaactcctt tatgtggatc tgttcaaagt 1680
agtcactgta tatacgtata gagaggtaga taggtaggta gattttaaat tgcattctga 1740
atacaaaact atactcctta gagcttgaat tacattttta aaatgcatat gtgctgtttg 1800
gcaccgtggc aagatggtat cagagagaaa cccatcaatt gctcaaatat tcagaaagta 1860
ctgtcaaaag cctaataaaa aacctaagat ttgctctgaa aaaaaaaaaa aaaaaa 1916

```

<210> 297

<211> 1476

<212> DNA

<213> Homo sapiens

<400> 297

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gggattctcc tgtcttagcc tcctgagtag ctgtgattac aggcattgcgc caccatgcct 60
ggctaatttc atatttttta gtagagacag gatttctcca tgttggtcag gctggtcttg 120
aactcctgac ctacagtgat ctgcccact ckgcctmcta aaktgctggg attacaggca 180
tgagccactg cacctggccg gttattctst stttacagat agctatagac atcatttttag 240
gaagtgttgc agtctggcat ttgtgctatt gttcattctc tgtgaaggct gttcatagtt 300
gctatagcct gtgtttagtt ttgtgatttc atcaatccca tctttctgtg tgagtaaatgc 360
attctaaaca tcctacccca ctttagaaac ggacgtgggg aacgcttggt catttaagcc 420
aacaataaat ttaggtgaat gtccttaagt gtttastgtt tttatccagt caaggatttg 480
cttttccttg aacatttggt ttaaattctg gggccaaaat gcaaaggaga agttctattc 540
aaaggcagta gttgaaatct attattttag ttagcctact tggcatttac tacatcgggtc 600
acttctccag gctgccctaa attagggtga tggagtgaaga catgccaaac atccaccttt 660
gggaccatag catagttaaa attaaatgta gttggaatag ctagcattgc agctacagta 720
gggaactgta gtctagttcc ctacagaaaa cccaaggrrgt gaaggagacag gattttgcct 780
aggcaaaaat ctaagactcg tgccctcctg gtacatgggg ttttaagact gaatgtgtaa 840
taggagcact gcctttgcc aatcaaatga gtgacagggt aactagaaaa tgtgacaatc 900
acatttcctc ttagctcaa taattctgtt ttcccaaagc ttttagcagct taattaaatc 960
tgttgagctg ggggaggaga gagctgttct ctagtgggtt acatgggtatt ctttaagaag 1020
aaaaaacaaa gccaaagaaa actcattatc tggcatgttc gccttaaaga tggtagtggc 1080
tagaattctg agttttcatc tcttttcaaa gctgcataat tctyatattt ggtattggcc 1140
tctaagtcct atattgcagt tggaattcctt gctgtattat tttttaagca agtgttaggt 1200
gcatttaact gctttcttca tccatgacga cattcccacc atgggggtct tgacaaagca 1260
gagtaaaaat atgctgttta cattgtttac ttacaagtaa ggagcctgaa ataacctgta 1320
gtttcgaatg caggccctga tttactggcg ttgtcagttt caattatgaa actgaagttt 1380
gggtgcctcct ctttatcatg tttttccct tgtagcagtt gtgtttaatg tcattaaaaa 1440
gaaataaaaag ttctttgtca gtgaaaaaaa aaaaaa 1476

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<210> 298
 <211> 541
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (175)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (178)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (249)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (506)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (524)
 <223> n equals a,t,g, or c

<400> 298
 tgcaggtacc ggtccggaat tcccgggtcg acccacgcgt ccgatttcaa aagctaatac 60
 tataatacat ttccataaaa atgatgtttt aagggtaaaa gaaaagaagt aagctatttt 120
 cctagataaa gctgcccagt ctaacaagac ataaaacatg tttttcggcc taggnttntt 180
 atcaatttag agtggtaatg ctgggtcaga tgttttgatt aattaatctt tgattaataa 240
 gtataagana gctaattatt agaagagaag gttgttttat aaacatcatc tttcaaaatt 300
 cgagatttat ggggaataaa ttaggagaag gtggttaaac ctcttcaaca ataaattgct 360
 ctttggggac attttatgca cagaactgtg caccctcctc agaacagcag gtctttaatg 420
 gcccatgtga tgagaagggc cccatcaagg cagcaggaat gggccactct cccacacccc 480
 atggggccagg ccaactgccac tcctgntgcc ctgcatcccc aggnattatag gctgcatggt 540
 a 541

<210> 299
 <211> 471
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (437)

<223> n equals a,t,g, or c

<400> 299

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ctgccccatc cactagacaa aagctgactc tggaaaacat taggcactca gaatcaagg 60
ttctggggtc agatggataa ttgccatcat cctcaccaag ttgccactgg actttcttgc 120
ccctaaatcc actgggcatt tcattgctac ctttcttgac ttcttgattg tttttgtgat 180
actgacacat cccccctttc agaacaccct ctgcccttgg attctgtgca caggaagcta 240
gttgctcccc tgaatacact ctttcttcct tgtaatacag cctctgattt tgagcccaag 300
aataaagact acagttctca gactccttcg caaataaatt ttgtgactaa actctagtca 360
acagtaagtg tcatgtagca gctcctggga atctccttta aaaagagagc ttgtttatac 420
cttattgtca tctctgntct tctgtgcccc ttcttcatt ttggctgcct g 471
```

<210> 300

<211> 942

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (507)

<223> n equals a,t,g, or c

<400> 300

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gtggaacata cctcagagtt atccccactg cacagggagg gagctgaggt atttaccac 60
ccatccttgt ctcatgtgtc aagggtattt tctgtgcata ggcataggct tcagcagaat 120
tgcaggtagt ggcagtcgga aattggacca gcaaacagaa atgattccta caggggatac 180
aagccaggca caggcagtggt ctgttacttg gggttcctgt tgcttagagt tgaaagcatc 240
ataacccatc ccaggtgatc atagaaggac ctcaaaggaa aagggtgagg gtttggacat 300
ttcctgagaa tccatggggg aaccattcag gggttggggc aggtgtcaac cacaagaaca 360
ttaaacaggc tcttttgcca gcaaagttgg gagtggtgtt gaagtaactg ggaaaactcc 420
acagaggctc agcgtccacc tctacctgac accctgccag caacctgggt gatttccgca 480
gggtgtctgaa ccccgatctc tcagtgnat ggccccactg tgaaccaga aatgccacac 540
catggaagcc acacactctg ctgtctcctt ctgtcctcat tcctgtcctt ctcamagtca 600
gtccctcttg gctcttcta gagtcccttt cattccctca tttcccactt cctgccgctg 660
tactgtcacc tgtggccctg gatttgcact cttgggtcaa caccctcaac tccaacacct 720
ctgtctttct gcccaccca ctagacaaaa gctgactctg gaaaacatta ggcactcaga 780
atcaagggtt ctggggtcag atggataatt gccatcatcc tcaccaagtt gccactggac 840
tttcttgccc ctaaattccac tgggctttgt ttgcaacttt ctgataattt ataattattt 900
caaaataaaa aaattttaaa aataaaaaaa aaaaaaaaaa at 942
```

<210> 301

<211> 461

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1)

<223> n equals a,t,g, or c

<220>

<221> misc feature
<222> (345)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (363)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (444)
<223> n equals a,t,g, or c

<400> 301
nscakmcgag gstagctgag ggacgcagct agaccttggc gggacggggc ttctgccggg 60
gcccaggccc agggaccagg cggaggcgtc gcgggagcct ttggggcacc acagagatgc 120
gggtttgcct gcaatgagat ttcattctct acatttaaag gacatccttt ctgagctgct 180
gtgaataaat ttggaatggt actgtatatt ttcattctaat ggagaactag ctgtactttg 240
aataaggatt gctgcactgg acgacttttag aacatccctc acaatgtcgt caaccgggag 300
ccagaacccc cacggcctga agcagattgg cctggaccag atctngggac gacctcagag 360
ccnggcattcc agcaggtgtt acacamgggc agagcatggg ccaagttcca gatatatgga 420
gytctaacag taatcctcct ggcntagcgc aggttgattg c 461

<210> 302
<211> 906
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (584)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (627)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (863)
<223> n equals a,t,g, or c

<400> 302
gctgactccc tctggtttcc ggtcaggtcg gtcgggtcccc actatgggcc tggagctgta 60
cctggacctg ctgtcccagc cctgccgcgc tgtttacatc ttgccaaga agaacgacat 120
tcccttcgag ctgcgcacatc tggtatctgat taaaggctcag cacttaagcg atgcctttgc 180
ccagggtgaac cccctcaaga aggtgccagc cttgaaggac ggggacttca ccttgacgga 240
gagtggtggc atcctgctct acctgacgcg caaatataag gtccctgact actggtaccc 300
tcaggacctg caggcccgtg cccgtgtgga tgagtacctg gcatggcagc acacgactct 360

```
gcggagaagc tgcctccggg ccttgtggca taaggatgatg ttccctgttt tcctgggtga 420
gccagtatct cccagacac tggcagccac cctggcagag ttggatgtga ccctgcagtt 480
gctcgaggac aagttcctcc agaacaaggc cttccttact ggtcctcaca tctccttagc 540
tgacctcgta gccatcamgg agctgatgca tcccgtgggt gctnggctgc caagtcttcg 600
aaggccgacc caagctggcc acatggnggc aggcgtggag gcagcagtg gggaggacct 660
cttccaggag gccatgagg tcattctgaa ggccaaggac gacttcccac ctgcagacct 720
caccataaag cagaagctga tgccctgggt gctggccatg atccggtgag ctgggaaacc 780
tcacccttgc accgtcctca agcaagtcca caaaagcatt ttcatttcta atgggccatg 840
ggagccaggc ccagaaaagc acngaattgg cttgcttaag acttgcccaa gttcccagag 900
cacctt                                     906
```

<210> 303

<211> 620

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (125)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (620)

<223> n equals a,t,g, or c

<400> 303

```
tggaatgagta cctggcatgg cagcacacga ctctgcggag aagctgcctc cgggccttgt 60
ggcatcccgt gggtgctggc tgccaagtyt tcgaaggccg acccaagctg gccacatggc 120
ggcancgcgt ggaggcagca gtgggggagg acctcttcca ggaggcccat gaggtcattc 180
tgaaggccaa ggacttcca cctgcagacc ccaccataaa gcagaagctg atgccctggg 240
tgctggccat gatccggtga gctgggaaac ctcacccttg caccgtcctc agcagtccac 300
aaagcatttt catttcta atggccatggg agccaggccc agaaagcagg aatggcttgc 360
ttaagacttg cccaagtccc agagcacctc acctcccgaa gccaccatcc ccaccctgtc 420
ttccacagcc gcctgaaagc cacaatgaga atgatgcaca ctgaggcctt gtgtccttta 480
atcactgcat ttcattttga ttttgataa taaacctggg ctgagcctga gcctctgctt 540
ctaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 600
aaaaaaaaaa aaaaaaaaaa                                     620
```

<210> 304

<211> 533

<212> DNA

<213> Homo sapiens

<400> 304

```
ggcacgagsg gcgggaacac gcggggccca agatggcggc cagccggtac cggcgttttc 60
ttaagctctg tgaggaatgg ccagtggacg agaccaaacg gggccgggac ttgggcgctt 120
acctgcgaca gcgggtagca caggcctttc gggagggaga gaatacccag gttgcagagc 180
ctgaggcctg tgatcagatg tacgagagct tagcgcgact ccattcaaac tactacaaac 240
acaagtaccc tcgccccaga gacaccagct tcagtggcct gtcgttggaa gagtacaagc 300
tgatcctgtc cacagacacc ttggaagagc ttaaggaaat agataaaggc atgtggaaga 360
```

```
aactgcagga gaagtttgcc cccaagggtc ctgaggagga tcataaggcc tgagctcagg 420
ccttacctcg tgcacatacc taggtgtgga gtcttgtaca ttgccatcgt caataaaact 480
gccccagttt ccccttgaaa aaaaaaaaaa aaaaaraaaaa gaaaaaagtc gac 533
```

<210> 305

<211> 1374

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1232)

<223> n equals a,t,g, or c

<400> 305

```
aaacaggaaa taaatacgaa tgaaactgag ctctaagcag catgtaacct ggcctgcac 60
caggaaatag aggacttcgg atccttctaa ccctaccacc caactggccc cagtacattc 120
attctctcag gaaaaaaaaa aaggtcccca cagcaaagaa aaggaatagg atcaagagat 180
acgtggctgc tggcagagca agcatgaatt cgatgacttc agcagttccg gtggccaatt 240
ctgtgttggt ggtggcacc cacaatggtt atcctgtgac cccaggaatt atgtctcacg 300
tgccccgtga tccaaacagc cagccgcaag tccacctagt tccctgggaac ccacctagtt 360
tgggtgtcgaa tgtgaatggg cagcctgtgc agaaagctct gaaagaaggc aaaaccttgg 420
gggccatcca gatcatcatt ggcctggctc acatcggcct cggctccatc atggcgacgg 480
ttctcgtagg ggaataacctg tctatttcat tctacggagg ctttcccttc tggggaggct 540
tgtggtttat catttcagga tctctctccg tggcagcaga aaatcagcca tattcttatt 600
gcctgctgtc tggcagtttg ggcttgaaca tcgtcagtc aatctgctct gcagttggag 660
tcatactctt catcacagat ctaagtattc cccaccata tgcctacccc gactattatc 720
cttacgcctg ggggtgtgaac cctggaatgg cgatttctgg cgtgctgctg gtcttctgcc 780
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aatcaagcaa tgtgagtgtc atctatccaa acatctatgc agcaaaccga gtgatcacc 900
cagaaccggt gacctacca ccaagttatt ccagtgaat ccaagcaaat aagtaaggct 960
acagattctg gaagcatctt tcaactgggac caaaagaagt cctcctccct ttctgggctt 1020
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tctcaccttc attcttcaat tcagtctagg aaacctatgct gtttctctat caagaagaag 1140
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tatgtgggca tccagcctct ggggccttgg cnacacacat tcgtgtgtct tgctgcatgt 1260
gagcttgtgg gttagaggaa caaatatcta gacattcaat cttcactctt tcaattgtgc 1320
attcatttaa taaatagata ctgagcattc aaaaaaaaaa aaaaaaaac tcga 1374
```

<210> 306

<211> 668

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (558)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (575)

<223> n equals a,t,g, or c

<400> 306

```
gcggacgtgg gcaggagggc tggaaaagcc ggcgctggag cgggaacggg agtagctgcc 60
tgggcgccaa aggccgcggc actcccacgc ggaccccgaa gtccgcaacc cggggatggg 120
ccgcgcgctg craggggatc ttctctggat caagcaatgg tggtgaaaaa tgtttcgcaa 180
gggcaaaaaa cgacacagta gtagcagttc ccaaagtagc gaaatcagta ctaagagcaa 240
gtctgtggat tctagccttg ggggtctttc acgatccagc actgtggcca gcctcgacac 300
agattccacc aaaagctcag gacaaagcaa caataattca gatacctgtg cagaatttcg 360
aataaaatat gttggtgcca ttgagaaact gaaactctcc gagggaaaag gccttgaagg 420
gccattagac ctgataaatt atatagacgt tgcccagcaa gatggaaaag tgccctttgt 480
tcctccggag gaagaattta ttatgggagt ttccaagtat ggcataaaaag tattcaacat 540
cagrtcaata tgtaagtnat ataatttatt aaganaacta tgtttttagat aacagggaat 600
tcaggccatt aagagccccc ttataattag ggccactcct gtttgcagag tgattgggtt 660
gtaaacat 668
```

<210> 307

<211> 1046

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (4)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (14)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (946)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (948)

<223> n equals a,t,g, or c

<400> 307

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gaagcataca taaataaatg aagtaagcca tactgattta atttattgga tgttattttc 120
cctaagacct gaaaatgaac atagtatgct agttattttt cagtgttagc cttttacttt 180
cctcacacaa ttggaatca tataatatag gtactttgtc cctgattaaa taatgtgacg 240
gatagaatgc atcaagtgtt tattatgaaa agagtggaaa agtatatagc ttttagcaaa 300
aggtgtttgc ccattctaag aaatgagcga atatatagaa atagtgtggg catttcctcc 360
tgttagggtg agtgtatgtg ttgacatttc tccccatctc tccccactct gttttctccc 420
cattatttga ataaagtgc tgctgaagat gactttgaat ccttatccac ttaatttaat 480
```

```
gtttaaagaa aaacctgtaa tggaaagtra gactccttcc ctaatttcag tttagagcaa 540
cttgaagaag agtagacaaa aaataaaatg cacatagaaa aagagaaaaa gggcacaaag 600
ggattggccc aatattgatt cttttttata aaacctcctt tggcttagaa ggaatgactc 660
tagctacaat aatacacagt atgtttaagc aggttccctt ggttggtgca ttaaatgtaa 720
tccaccttta ggtatttttag agcacagaac aacactgtgt tgatctagta ggtttctatt 780
tttcctttct ctttacaatg cacataatac tttcctgtat ttatatcata acgtgtatag 840
tgtaaaatgt gaatgacttt ttttgtgaat gaaaatctaa aatctttgta actttttata 900
tctgcttttg tttcaccaaa gaaacctaaa atccttcttt tamwananaa aaaaaaaaaa 960
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1020
aaaaaaaaaa aagggcggcc gtttta 1046
```

<210> 308

<211> 1686

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (7)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (29)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (39)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (117)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1522)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1551)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1627)

<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1673)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1686)
<223> n equals a,t,g, or c

<400> 308
aaattcnaaa tactagtttt gaaagtaana taccttgtna tagttatctt tttatatgaa 60
aatgaactct aaatacatat ctttctttca atgttcatat caacaaagct ccaattnaat 120
ggtccctgga aaaaaaaaaa tcgttccatg ttgttcccag gtcccgttca agaagttctt 180
ccagtttcca gtccaagatct cgttccagtt ccagagaacg ttcgagatct cgtgggtcga 240
aatcaagatc cagctccagg tccacagggg ctcttcttcc ccacgaaaaa gatcttattc 300
aagttcatca tcttctcctg agaggaacag aaagagaagt cgttctagat cttcttcac 360
tggtgatcgc aaaaaaagac gaacaagatc acggtcaccc gaaagccagg tgattggtga 420
aaacactaaa caacctgag cccagggcc aacctacgga acaccactac tttaccaga 480
cgccacaggt catcatctgg atcatcccat tctgggtccc gttcaagttc aaaaaagaaa 540
taatgtatta aaatttacat cttaaaaaaa tccagtacag tgcataaagc atatttttaa 600
agaagttggt gtcttacttg gtcagaagtg ctaaatctgc tagtagagggt gcatgccttt 660
cattgctttt caaaacaata cagctgtgtt tatttgtgaa gttaaaagta aatagcattt 720
taagccataa tgtcccaaaa tagatgttct gtcattcatt atttacaacc atttgcttca 780
tttaaaacca tttcagctat aacaaagtac tttgcttcct aatttaaacc catttttgtc 840
atttccaaat acatcctgtc cattggctaa gacaggatta cctaggcttg cctgaacttt 900
gggcatggaa gaaagactgg aaactagttg gaaacaacat acttatggaa aagaaagtca 960
gcctttttat gctgttaaca gatgtcagag tgattctcac caaaaaaagt taaactatgt 1020
tgtaagcagc caactgtaaa tgtctatttt gaaattccct atgctaagggt tgccttagaa 1080
tcattgtgtc tcttttatcc agctttactt ttttgctcca catttaatgc aaaaagaatc 1140
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ttaaagtata tttctctttt ggtgaaaggc caatggagac attgtgaatt taagtgaaca 1440
tttgctcaa gatgttaact ataaacacac tgcatacaat tttcttctga ataacaaatg 1500
aatgcttatt gctgcatgat gntaagcaaa agtcwttatt ttcctatcm nttgaaataa 1560
gttatggctt aaaagcyttt ggarttatc tcaaaattaa aatctggtca catgagcttt 1620
aatttgnttt ctggtttaa aaataaaaag gggtctctta cagtatttcc agngcaatgc 1680
aaggan 1686

<210> 309
<211> 1426
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1350)
<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1391)

<223> n equals a,t,g, or c

<400> 309

```
tcttcactct gatgagggct cagacttgat aacgcccgtg gtgccccatc cctataggag 60
ctggtgagat tgcagcctgc tgccctccct ccacagcca cagctattgg atttcccacc 120
cagaatcttt aggtaaatga gatcatgatt ctggaaggag gtggtgtaat gaatctcaac 180
cccggcaaca acctccttca ccagccgcca gcctggacag acagctactc cacgtgcaat 240
gtttccagtg ggttttttgg aggccagtg catgaaattc atcctcagta ctggaccaag 300
taccaggtgt gggagtggct ccagcacctc ctggacacca accagctgga tgccaattgt 360
atccctttcc aagagttcga catcaacggc gagcaccttt gcagcatgag ttgagaggag 420
ttcaccgggg cggcagggag ggcggggcag ctccctctaca gcaacttgca gcatctgaag 480
tggaacggcc agtgacagtag tgacctgttc cagtccacac acaatgtcat tgtcaagact 540
gaacaaactg agccttccat catgaacacc tggaaagacg agaactatct atatgacacc 600
aactatggta gcacagtaga tttgttgtag agcaaaactt tctgccgggc tcagatctcc 660
atgacaacca ccagtcacct tcctgttgag tcacctgata tgaaaaagga gcaagacccc 720
cctgccagt gccacaccaa aaagcacaa cagagaggga ctcaattatg ggaattcatc 780
cgcgacatcc tcttgaaccc agacaagaac ccaggattaa taaaatggga agaccgatct 840
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amcaacagca gcatgaccta tgaaaagctc agccgagcta tgagatatta ctacaaaaga 960
gaaattcttg agcgtgtgga tggacgaaga ctggtatata aatttgggaa gaatgccga 1020
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ccaaataatc agaaacaaag aactcctgga cgtaaatatt tcaaagacta cttttctctg 1140
atatttatgt accatgaggg gaacaagaaa ctacttctaa cggaagaag aaacactaca 1200
gtcgattaaa aaaattatct tggtacttcg aagtatgtcc tatatgggga aaaaacgtac 1260
acagttttct gtgaaatatg atgctgtatg tggttgtag tttttttcac ctctattgtg 1320
aattcttttt cactgcaaga gtaaccaggn tttgtagcct tgtgcttctt gcctaagaga 1380
aaggaaaaac naaatcagag ggcattaaat ggttttgtag ggtgac 1426
```

<210> 310

<211> 1493

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (975)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1483)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1492)

<223> n equals a,t,g, or c

<400> 310

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ccctccctcc ctccctcact gcttccctcc ctctctctcc ctctcccttt cttttctaca 60
ttgaaatctg ttcttacata atagagaaca gggctattga ataaagaccc aatcctacca 120
gatcttttagt tctaaagggc aacttgactg tgagtaggag ggcccccaag aaaggragga 180
aagtccacac ccagctaacc acacaacagg gcttcattat ggaaatattt taacaaaagt 240
acatgttatt accaaccaaa gagatgcatg tgcaatagaa gccttcctta aaaacaggct 300
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tccagagggg ctttatattc ttttttagt ctagatattt ttgtttata aattcccaag 420
gaattgttaa cactttggtg acacctaatg gattcttttt gaaattccaa ggtgcttcag 480
ttctttgccc aagtgaactg tgccttttat tgcatttctg ttcgtctctt ggtggctctt 540
ctgacttttt ggagaatacc catcttggtg gaggcagact taagttgtta tgctgtgcca 600
cacaatttac tgagacaatc atatcttcct aagcatttaa ggaaagtga aaaaaataga 660
attagctata aaatatgtat ggcacatctt gtttaatttt gcatgtaact tctcttttgt 720
acattgatga ggttttagtg acattgtcat ccaacacttt acctttattg ttcagggaat 780
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gagcatttta aatggcagaa gtaaaaagtt ataatattta taattttgat gggtttaagt 1380
ttatttttgt agggaagatt tttctcccct aaaatagttt ctagaatggc aaaattgttt 1440
ccattattaa aaattgaagt tattagttaa aaaaaaaaaa aanaagaaaa ana 1493

```

<210> 311

<211> 2342

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2322)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2327)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2338)

<223> n equals a,t,g, or c

<400> 311

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ggttctagat cgcgggcggc cgctcgcgag cagctgccga agtcagttcc ttgtggagcc 60
ggagctgggc gcggattcgc cgaggcaccg aggcactcag aggaggtgag agagcggcgg 120
cagacaacag gggaccccg gcggcgcc agagccgagc caagcgtgcc cgcgtgtgtc 180

```

```

cctgcgtgtc cgcgaggatg cgtgttcgcg ggtgtgtgct gcgttcacag gtgtttctgc 240
ggcaggcgcc atgtcagaac cggctgggga tgtccgtcag aacccatgcg gcacaaggcc 300
tgccgcggcc tcttcggccc agtggacagc gagcagctga gccgcgactg tgatgcgcta 360
atggcgggct gcatccagga ggcccgtgag cratggaaact tcgactttgt caccgagaca 420
ccactggagg gtgacttcgc ctgggagcgt gtgcggggcc ttggcctgcc caagctctac 480
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tcacctgtct tgctgcaggg gacagcagag gaagaccatg tggacctgtc actgtcttgt 600
acccttgtgc ctgcctcagg ggagcaggct gaagggtccc cagggtggacc tggagactct 660
cagggtcgaa aacggcggca gaccagcatg acagatttct accactccaa acgcccggctg 720
atctttccca agaggaagcc ctaatccgcc cacaggaagc ctgcagtcct ggaagcgcga 780
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cagacatttt aagatgggtg cagttagggc tatggacagg gcatgccacg tgggctcata 1980
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gcttagtgta cttggagtat tggggtctga ccccaaacac cttccagctc ctgtaacata 2100
ctggcctgga ctgttttctc tcggctcccc atgtgtcctg gttcccgttt ctccacctag 2160
actgtaaaac tctcgagggc agggaccaca ccctgtactg ttctgtgtct ttcacagctc 2220
ctccacaat gctgaatata cagcaggtgc tcaataaatg attcttagtg actttaaaaa 2280
aaaaaaaaa aaaaaaaggg gggggggccc cggtagccaa antttgnccc ctaaaagnng 2340
ag 2342

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<210> 312

<211> 854

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (850)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (854)

<223> n equals a,t,g, or c

<400> 312

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ctgcatttgc ctgtcatgcg caactggagc cagcaaccag cacatccatc agcaccaccag 60
tgaggaggtt catggaagag ttccctcttt gttctgctt ctttttctt tcttttctt 120
tctcctaaag cttttattta acagtgcata aggatcggtt ttttttgctt ttttaaactt 180
gaattttttt aatttacact ttttagtttt aattttcttg tatattttgc tagctatgag 240
cttttaaata aaattgaaaag ttctggaaaa gtttgaaata atgacataaa aagaagcctt 300
ctttttctga gacagcttgt ctggtaagtg gcttctctgt gaattgcctg taacacatag 360
tggtctctcc gcccttgtaa ggtgttcagt agagctaaat aaatgtaata gccaaaccca 420
ctctgttggg agcaattggc agccctattt cagtttattt tttcttctgt tttcttctt 480
tcttttttta aacagtaaac cttaacagat gcgttcagca gactgggttg cagtgaattt 540
tcatttcttt ccttatcacc cccttggtgt aaaaagccca gcacttgaat tgttattact 600
ttaaatgttc tgtatttgta tctgttttta ttagccaatt agtgggattt tatgccagtt 660
gttaaaatga gcattgatgt acccattttt taaaaaagca aggcacagcc ttgcccataa 720
actgtcatcc taacgtttgt cattccagtt tgagttaatg tgctgagcat ttttttaaaa 780
gaagctttgt aataaaacat ttttaaaaat tgtaaaaaaa aaaaaaaaaa aaaaaaaaaa 840
aaaggggggn cccn 854
```

<210> 313

<211> 1501

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1387)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1395)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1399)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1438)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1497)

<223> n equals a,t,g, or c

<400> 313

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ctcagtagcg tcgaattccg ggctgaccac gcgtccgctt tctccacca tcccagagaac 60
```

```
atcaaataaa gtccccgtgg tgcagccatc ccatgcgggc catcctctca cccccctcat 120
cacttacagt gacgagcact tttctccagg atcacacccg tcacacatcc catcagatgt 180
caactccaaa caaggcatgt ccagacatcc tccagctcct gatatcccta ctttttatcc 240
cttgtctccg ggtggtggtg gacagatcac cccacctctt ggctggcaag gtcagcctgt 300
atatcccatc acgggtggat tcaggcaacc ctacccatcc tccactgtcag tcgacacttc 360
catgtccagg ttttcccatc atatgattcc cggctcctct ggccccaca caactggcat 420
ccctcatcca gctattgtaa cacctcaggt caaacaggaa catccccaca ctgacagtga 480
cctaatagcac gtgaagcctc agcatgaaca gagaaaggag caggagccaa aaagacctca 540
cattaagaag cctctgaatg cttttatgtt atacatgaaa gaaatgagag cgaatgtcgt 600
tgctgagtgt actctaaaag aaagtgcagc tatcaaccag attcttggca gaaggtggca 660
tgccctctcc cgtgaagagc aggctaaata ttatgaatta gcacggaaa aaagacagct 720
acatatgcag ctttatccag gctggctctg aagagacaat tatggtaaga aaaagaagag 780
gaagagagag aaactacagg aatctgcac aggtacaggt ccaagaatga cagctgccta 840
catctgaaac atgggtgaaa acgaagctca ttccaacgt gcaaagccaa ggcagcgacc 900
ccaggacctc ttctggagat ggaagcttgt tgaaaaccca gactgtctcc acggcctgcc 960
cagtcgaccc caaaggaaca ctgacatcaa ttttaccctg aggtcactgc tagagacgct 1020
gatccataaa gacaatcact gccaacccct ctttctgcta ctgcaagagc caagttccaa 1080
aataaagcat aaaaagggtt tttaaaagga aatgtaaaag cacatgagaa tgctagcagg 1140
ctgtggggca gctgagcagc ttttctcccc ccatatctgc gtgcacttcc cagagcatct 1200
tgcatccaaa cctgtaacct ttccgcaagg acggtaactt ggctgcattt gcctgtcatg 1260
cgcaactgga gccagcaacc agcacatcca tcagcacccc agtggaggag ttcattggaag 1320
agtccctctt ttgttctgct tcatttttct ttcttttstt ttcttcctaa agctttaatt 1380
aacaagnggc aaaangganc gttttttttt ggttttttta aaacctggaa tttttttnaa 1440
ttaacacttt ttaagtttta aattttcttg ggaaaatttg gctaagcttt tgaacctttt 1500
t 1501
```

<210> 314

<211> 1193

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (999)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1069)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1190)

<223> n equals a,t,g, or c

<400> 314

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ggaagattcc ttttctggga gtttgtcttg ggatgcaact agcagtgata gagtttgcaa 60
gaaactgcct taacttgaaa gatgctgatt ccacagagtt taggccaaat gcccagttc 120
ctctgggtgat tgatatgccc gagcacaacc ctggcaattt gggaggaaca atgagactgg 180
gaataagaag aactgttttc aaaactgaaa attcaatatt aaggaaactt tatgggtgatg 240
```

```
ttccttttat agaagaaaga cacagacatc ggttcgaggt aaaccctaac ctgatcaaac 300
aatttgagca gaatgactta agttttgtag gtcaggatgt tgatggagac aggatggaaa 360
tcattgaact ggcaaatcat ccttattttg ttgggtgtcca gttccatcct gagttttctt 420
ctaggccgat gaagccttcc cctccgtatc tggggctgtt acttgagca actgggaacc 480
tgaatgccta cttgcaacag gggtgcaaac tgtcttccag tgatagatac agtgatgcca 540
gtgatgacag cttttcagag ccaaggatag ctgagttgga aataagctga aatgaatata 600
tgactgggaa taatggggac tgccctgtgag gcctctgaaa taattgaagg caagatgaag 660
gaactatctg aagaaatcac tacactctta gagaatccct ctgttctcca gcaaactatg 720
gatgtaaaac ctacagaggga atctgataat acatacttct gtcaaccaga accagagggg 780
tagttttctt ttccctccag aggcagcctt tgggtactta aatatctgta gctgattaaa 840
tttttcccaa caacctcact ggggagaaaag tgtgttcattg ttttgtccag cggatcagga 900
tgtaggatg acgagcaaga gtccagggtca ctgtgccttt gctgtgttgt atggaaagga 960
tggcagggaa catgctgtaa gtaattttga gtaagaaant gagtcactgt gttacctgga 1020
actcagccac agatttgtgt gtggtccaag atcattgcag tttctcacnc tgtttatttc 1080
ctggtaaaag taaaattgaa taggtccaag acttgggggt ggcaagtaag gctttgcctc 1140
aagcacaaaa ttaaggggg ctccaaaaaa ctcaggaatc caaggggggn ggg 1193
```

<210> 315

<211> 798

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (547)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (718)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (771)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (783)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (793)

<223> n equals a,t,g, or c

<400> 315

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ggccatgggc tgcccttggt ttgggttggt gggttctggt cagtgagaac gcaactcaat 60
ccaaagtga tgaaaccaag ttggaaggca gggagggaac tggctttgag atgacaggg 120
ccaggatgtg aatgcagctg agactgggtt ttgtccctcc ctcttgtccc tcggattgat 180
```

aacttgtagt caactacatg cttttgtcag ggaaccctgg ctgctggcct tctgggtccc 240
ctaaccataa gaaaaaggac cttccgttag tgtaaagccc aaggcaggat tctgcttggc 300
tggtgcttga tctggtaccc atagctggac caatcatgac atcccagatg gggtcacgtg 360
gccaacctgc cgcaaggggg tgggtgtctgt accggaagac aggagggggag ggggtgcagat 420
cggacaggaa gtaatggcat cccaggcccc gaattgctgc aaccctggag gccagcccs 480
agttgagact actggtttta gagcagttcc tctgccttcc taagctccac acctgtcagg 540
attctgntac ttcttggtaa ctgggacttg ccaactttaa aaacattatt taaaaaata 600
gtaatgtgca catgtaaaag attcaaatag tatatataca aggtgtacag taaaaaagta 660
aacttccctt catcccaagc ctggcagcat tccctgatgc cgactttctg ggtgtggnc 720
aaggccccctt aatgtaatgt aaggggttgt gaacacaaga acttttgggtg ncaagtttgc 780
tanggttcga atncctga 798

<210> 316

<211> 1935

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (37)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (38)

<223> n equals a,t,g, or c

<400> 316

tgagctgcag gtcgacacta gtggatccaa agaagcnnng caccagagaa tggcagcaag 60
ttgacaggca gctgccttca ctggcatgca aatatccagt ttcttccagg gaggcaacac 120
agatattatc agttccaaaa gtatgatgat aaatccatagg gtttatttct gaagccactc 180
cactaggagg tattcaagca gcctccactg agtcttgcaa tcagcagttg gacttagcac 240
tctgtagagc atatgaagct gcagcatcag cattgcagat tgcaactcac actgcctttg 300
tagctaaggc tatgcaggca gacattagts aagctgcaca gattccttagc tcagatccta 360
gtcgtaccca ccaagcgctt gggattctga gcmaaacata tgatgcagcc tcatrtattt 420
gtgragctgc atttgatgaa gtgaagatgg ctgcccatac catgggaaat gccactgtag 480
gtcgtogata cctctggctg aaggattgca aaattaattt agcttctaag aataagctgg 540
cttccactcc ctttaaagggt ggaacattat ttggaggaga agtatgcaaa gtaattaaaa 600
agcgtggaaa taaacactag taaaattaag gacaaaaaga catctatctt atctttcagg 660
tactttatgc caacattttc ttttctgtta aggttgtttt agtttccaga tagggctaata 720
tacaaaatgt taagcttcta cccatcaaat tacagtataa aagtaattgc ctgtgtagaa 780
ctacttgctt tttctaaaga tttgcgtaga taggaagcct ggtacaaaca atttaacgct 840
ttctagatca catattagtc tctaagttgt tttctgtttc ctgctttact tatgttttta 900
caattctcca aaactaagaa aattctaatt aggatataag gagtatttac tgttcaatag 960
aataatatgc atcctccttt atacctagga cagaattaaa catttggttac acattcagaa 1020
cagtgatgtt gttctttttg atacttttat ctcatgtatc tttcacgttc cataacttgt 1080
ccatatattt gctcatattt tcttactttt ctttgttatt tattcatgtc tgcaacatca 1140
atcatatgat tcatagcaa tgcaactcaa agcaccagtc tacaactgt tacttatcca 1200
caggcaagat aagcatgcac aagaatttaa atctaragat acttttttagg tcaatgacag 1260
gatttgattt ttttagcaaaa ttttattaat agctaaagca atgtattgat ttacactctg 1320
atgcaagtaa tttatctctt cattgactgg tagcaaccaa ttcattggacc agtaccatgg 1380

```
accacacttt gagaaacact tctttggata ataatagata tcctgggata gtgcatgttc 1440
accatctatt ttgtcagata atggggcctt ttaaaaaata atactttgct ttcattgatat 1500
attgtatttt gtggaaagt aaagtttagca atatagactc taaaagcaaa ttaaattttt 1560
ttaagccata agaaattata ctatatccca gtatctgtat gtctgtataa agcagtggtat 1620
tatcatgttt tcatttctgt gattgtaagt taagagtctt aactgcagag gtattgtgga 1680
aagtagtagc cttaagcata ataaaatatg gtctcttggg tactccctct ggccattacc 1740
acattcttag attatatgtg tccatctttg cagctttctg agagtaattt tatttggtgt 1800
cttctgaaat gtacatgtat acatgtacct actgagtgt atgtgatttt taaaaatgta 1860
ttactgtaga atgcttctgc aaattcaata aagttgttaa atttgaaaaa aaaaaaaaaa 1920
aaaaaaaaa aaaaaa 1935
```

<210> 317

<211> 1738

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (22)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1723)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1732)

<223> n equals a,t,g, or c

<400> 317

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cattttcaac aagaccatc gnactgacac tgatgcttat ggctgttctg aactgtctct 60
tcgactcatt gagccagatg ctgaggaaaa atgtagaaaa gcgagcactg ctggagaaca 120
tggaggggct gttcttggct gtggatgaaa ttgtagatgg aggggtgatc ctagagagtg 180
atccccagca ggtggtacac cgggtggcat taaggggtga agatgtcccc cttacggagc 240
agaccgtgtc tcaggtgctg cagtcagcca aagaacagat caagtggta ctccttcggt 300
gaagacctca ctgttcctgg ctcttcaccc tcttcaaaaa atttgcattg ctgctgtgaa 360
ttttcatcta gttccccaat cgatgctctc agggtcattc cggggatcac agggatcctt 420
aaatctccat tctgtttgtg gttgccccct caacctcccc tacaccttc ctattctttt 480
tcattcttct tgcagttctg ggagtaaagc tcccagcata tttagataat agggcagggg 540
aagcaccctc tttctttcta gactggatta tgctcacatg ctcccttgcc ctgacatttt 600
tgtaaatctt gtgccctttg ctgtagctac acttcagatt aaagtaggag aaagaatgtg 660
ctgagtgttt tcctcccttt gcctctacct ggccctcatc ccaacagccc agcaagggga 720
gagagaaaga gaattctttt ctatagaacg agtgggggag gggatgggta gggatttate 780
caatctaagc cctaacccca cttagtgaac tcagtgtttt ctccattccc ttcttactgc 840
cctgtcctct gccttgaag aggccttggg aatagttcat aggggaagga caacatggaa 900
gaaacagcga tttaaatgt attgaacagg gcatataaaa tgcatctgt accctgatct 960
ggcatatagc ttcaaaactg cagtggcgag tgccatctc ttagttagct accttaactg 1020
tccaccttta ctacctgtg gatcgttgcc tgggttgtct tctctgtgtc ctggagcaaa 1080
gccagttcct aaaactaaaa ctccattcta gtcttgggaa gaaaagtctt tactcagaac 1140
```

```
tggggaagga gtggaactta tgacttgggc ctctaggctg tctctgtccc ctcagctccc 1200
cgacatgcat ttactctctg ccgtgggtct gcagtcgctg caacctaccc tctctctgcc 1260
tcagccttac acccaagcag taggtctgtg ctctccctgt ctctaggctg ctgagagagg 1320
tgcttttctt cataaaacct ttgggggttg gatttcccca ggaagatgga gaatggaata 1380
ctcactcttg ggtctaactt ttccccttga cccagaactt cctccccaca aaaatgcctt 1440
taaaaacctt cctgagactt aagcattctg ccccaactac taactgccag ttctccagca 1500
ctgagggtgg gcagataacg gggcatatct aagggggcat ctttgtgtaa aagatgcatg 1560
gagtcaggag aaaaccacct tcataaactg ctctgtgcaa agaggaataa aacatttttt 1620
ccaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1680
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aanggggggc cnttttaa 1738
```

<210> 318

<211> 1340

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (29)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (67)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1340)

<223> n equals a,t,g, or c

<400> 318

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tttaggtgac actatagaag gtacgcctnc aggtaccggg tccggaattc ccgggtcgac 60
ccacgcntcc cgggaggaga agtccaagca gttcctcgac ttgatggaga ctattgataa 120
gcagcgagaa gagatggcca agagcagcag ggcgtcggca gcccgtagag ggaagcttca 180
ggaagccctg aatgagaggc actccatcat caacgctctc aaggccaagc tgcagatgac 240
agaggccgcc ctggctctgt cggagcagaa ggcccaggac ctgggggagc tcctggccac 300
agcggagcag gagcagctga gcctgtcaca gaggcaggcc aaggagctca agctggagca 360
gcaggaagct gcagagcggg agtctaaact cctcagagac ttgtctgctg ycaatgaaaa 420
gaacctgctt ctgcaaaacc aggtagacga gttggagcgg aagttcaggt gtcagcagga 480
gcagctgttc cagaccaggc aggagatgac cagcatgtca gctgagctga agatgcgggc 540
catccaggcg aggagcgcct ggacatggag aagagaagat gcagacagag cctggaggac 600
tccgaaagcc tgcgcatcaa ggaggtggag catatgacct gtcacctgga ggagagtga 660
aaggccatgc aggagcgggt gcagaggctg gaggcggcgc ggctgtccct ggaggaggag 720
ctgagccgag tgaaagcagc ggcactcagc gagcgtggcc aggctgagga ggagctgac 780
aaggccaaga gccaggcccg cctggaggag caacagcgcc tggctcacct ggaggacaa 840
ctgagactgc tggcgcaggc acgggacgag gcgcaggcgc cttgcctaca gcagaagcag 900
gtgggtggcc aggccagac ccgggtcagc cagctgggcc tgcaagttga gggcctgcgg 960
cggcgccctg aagagctgca gcaggagctg agcctcaagg accaggaaa ggtggccgag 1020
gtgagcaggg tgcgcgtgga gctgcaggag cagaacggcc ggctgcaggc ggagctkgcg 1080
gctcaggagg cgctgaggga gaaggcggcg gccctggagc gccagctgaa agtgatggcg 1140
```

```

agcgaccacc gagaggcgct gctggacagg gagagcgaga acgcgtctct ycgggagaag 1200
ctgcggctcc gggaggcgga gatcgccccg catccgggac gaggaggccc araagggcga 1260
gcttcctgca gaacgccgtc ctggsttacg tgcaggcgtc cccgtgagga ccctgacccc 1320
ccaaagtgag acaggcccg 1340

```

<210> 319

<211> 784

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (511)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (603)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (643)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (754)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (763)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (778)

<223> n equals a,t,g, or c

<400> 319

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gcgcgggttc agacctgccg agcgcccgcc gccgcgggag gggcttgagg ccggggcggg 60
gcggggcggg gcgtccccct cgtaggctcc gggccgcgca ttctcagcgc tgggagccgc 120
cgccccgcga gctgcgcgcc gccgccaggg cccggactcg gacgcgtgcc tagagtcctg 180
gggagcttct gtccacctgt cctgcagagg agtcgtttcc agcccggctg cccaggatg 240
ggtgagttca acgagaagaa gacaacatgt ggcaccgttt gcctcaagta cctgctgttt 300
acctacaatt gctgcttctg gctggctggc ctggctgtca tggcagtggg catctggacg 360
ctggccctca agagtgacta catcagcctg ctggcctcag gcacctacct ggccacagcc 420
tacatcctgg tgggtggcgg cactgtcgtc atggtgactg gggctcttggg ctgctgcgcc 480
amcttcaagg agcgtcggaa cctgctgcgc ntgtacttca tcctgctcct catcawcttt 540
cttgctggag atcawcgtg gtatcctcgc ctacgcctaa ttaccagcag ctgaacacgg 600

```

agntcaagga gaacctgaaa ggacaccatg gaccaagcgt tancaccagc cgggccatga 660
ggttgttgac cagcgttttg ggaccagttg cagcaggatt tccattgttt tgggaagcaa 720
caatttacag ggtttggcga gacattgagt tgantccgtt aanaggaggc cttggttngt 780
tggt 784

<210> 320

<211> 3527

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (94)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (96)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1926)

<223> n equals a,t,g, or c

<400> 320

gccggcgtct cctggctgcc gtcacttccg gttctctgtc agtcgcgagc gaacgaccaa 60
gaggggtgttc gactgctaga gccgagcgaa gcgntngcct aaatcaaagg aacttgtttc 120
ttcaagctct tctggcagtg attctgacag tgagggtgac aaaaagttaa agaggaaaaa 180
gcaagttgct ccagaaaaac ctgtaaagaa acaaaagaca ggtgagactt cgagagccct 240
gtcatcttct aaacagagca gcagcagcag agatgataac atgtttcaga ttgggaaaaat 300
gagggtacgtt agtgttcgag attttaaagg caaagtgcata attgatatta gagaatattg 360
gatggatcct gaaggtgaaa tgaaccagg aagaaaagggt atttcttta atccagaaca 420
atggagccag ctgaaggaac agatttctga cattgatgat gcagtaagaa aactgtaaaa 480
ttcgagccat ataaataaaa cctgtactgt tctagtgtgt ttaatctgtc tttttacatt 540
ggcttttgtt ttctaaatgt tctccaagct attgtatgtt tggattgcag aagaatttgt 600
aagatgaata ctttttttta atgtgcatta ttaaaaatat tgagtgaagc taattgtcaa 660
ctttattaag gattactttg tctgcccacc acctagtgtt aaataaaatc aagtaataca 720
atcttaactg ttgtggcctt ttttgatcat aagagttggt actgtttaag gccaaaagta 780
acagttttta tagatctttt agtttcaact cagcttttac aataaaaagg atttgatttg 840
cattgagttt ataaactttt ggtttgtgaa cttcatattt gatcttttct cttccaatca 900
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gttagtttgt agggaaaaga gcatatgagc acatgcttgt gtattttggc ctttgcccca 1500

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ctgtaattgt ggaatgcttg tatgtcttgt tttcgtacat cttccatgga gatgtctgaa 3420
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aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaa 3527

```

<210> 321

<211> 1449

<212> DNA

<213> Homo sapiens

<400> 321

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tcaaagaacc tctgtattac tggcaacaga ctgaagatga tttgacagta accatacggc 240
ttccagaaga cagtactaag gaggacattc aaatacagtt tttgcctgat cacatcaaca 300
ttgtactgaa ggatcaccag tttttagaag gaaaactcta ttcattctatt gatcatgaaa 360
gcagtacatg gataattaaa gagagtaata gcttggagat ttccttgatt aagaagaatg 420
aaggactgac ctggccagag ctagttaattg gagataaaca aggggaactt ataagagatt 480
cagcccagtg tgctgcaata gctgaacgtt tgatgcattt gacctctgaa gaactgaatc 540
caaatccaga taaagaaaaa ccaccttgca atgctcaaga gttagaagaa tgtgatattt 600

```

```

tctttgaaga gagctccagt ttatgcagat ttgatggcaa tacattaaaa actactcatg 660
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tattgtgta 1449

```

<210> 322

<211> 777

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (36)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (752)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (771)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (775)

<223> n equals a,t,g, or c

<400> 322

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cacacgcgcg cagcagcca gcgagcggcc ggagcggacg gcagacgggg cgggcggcgt 120
cagggtcgca gcgtctacag ctgctcgggg gcggtttctt ggcggaggct tggccggctc 180
ctctctcccg gctcgcggc ggctgcgaag gcggcggctc ctgccctctc gctttccctc 240
tcgcgtctct ggctgcagg gaaaggaaag caagccagga tggatattta cgacactcaa 300
accttggggg ttgtggtctt tggaggattc atggttggtt ctgccattgg catcttcctg 360
gtgtcgactt tctccatgaa ggaaacgtca tatgaagaag ccctagccaa ccagcgcaag 420
gagatggcga aaactcacca ccagaaagtc gagaagaaaa agaaggagaa aacagtggag 480
aagaaaggaa agaccaagaa aaaggaagag aaacctaata ggaagatacc tgatcatgat 540

```

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ccagccccc  atgtgactgt  cctccttcga  gaaccagtg  gggctcctgc  tgtggctgtg  600
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ccccaggaga  agctggccty  ctyccccaag  gacaaaaaga  araaggaraa  aaaagttgca  720
aaagttggac  cagtgtcast  ctgtagtgat  tncatccagg  tttcaatttg  naagntg     777
```

<210> 323

<211> 1214

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1203)

<223> n equals a,t,g, or c

<400> 323

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gcccatcttc  cctggcaagc  actacctgga  tcagctcaac  cacattctgg  gcatcctggg  180
ctccccatcc  caggaggacc  tgaattgtat  catcaacatg  aaggcccgaa  actacctaca  240
gtctctgccc  tccaagacca  aggtggcttg  ggccaagctt  ttccccaagt  cagactccaa  300
agcccttgac  ctgctggacc  ggatgttaac  ctttaacccc  aataaacgga  tcacagtgga  360
ggaagcgctg  gctcaccctt  acctggagca  gtactatgac  ccgacggatg  agccagtggc  420
cgaggagccc  ttcaccttcg  ccatggagct  ggatgacctt  cctaaggagc  ggctgaagga  480
gctcatcttc  caggagacag  cacgcttcca  gcccggagtg  ctggaggccc  cctagcccag  540
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agtagggact  cagggccatg  cctgcccccc  tcatctcatt  caaacccac  cctagtttcc  960
ctgaaggaa  attccttagt  ctcaagggtt  agcatccctg  aggagccagg  ccgggcccga  1020
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gaagtggagc  tggggggcgt  ggagagcccg  gcgcccctgc  cacctccctg  acccgctctaa  1140
tatataaata  tagagatgtg  tctaaaaaaa  aaaaaaaaaa  aaaaaaaaaa  aaaaaaaaaa  1200
aancccgggg  gggg                                     1214
```

<210> 324

<211> 1046

<212> DNA

<213> Homo sapiens

<400> 324

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cacttgtagt  cttcttctat  tcagtggagt  ccagaaatat  atgcagaaga  tactggcgaa  60
tataccagag  aacctggatt  tatagtagta  aaaaagattg  aggagtctga  aacaattgag  120
gattctagta  atcaagcagc  agccagagaa  tgggagatta  ctacaagggg  agacataaat  180
tcaaagcagg  ttgctacagt  gaaagcagac  ctggagtctg  aatcttttct  accaaacctt  240
agtgatccca  gtgaactttt  actgccagat  caaattgaaa  agcttaccaa  gcatcttcca  300
ccaagaacaa  ttggctatcc  atggactctt  gtttatggta  ctggaaaaca  tggcacaagc  360
ttgaaaactc  ttatcgaac  aatgacaggt  ttagacaccc  cagtgtctgt  ggtgattaaa  420
```

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aaatcatgtt cttgtcccag agttcttttag gttaacacta gggactgcgt ccatgggtact 960
agtataacag cttgggtttg ttagaatttg ggcaacattt tggattataa tgacaacttc 1020
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```

<210> 325

<211> 674

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (465)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (666)

<223> n equals a,t,g, or c

<400> 325

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gaaacttgct aaagactcgg cataaaaaaca gatctccaac taaagacatg gattcagaag 180
agaaggaaat tgtggttttg gtttgccaag aagagaagyt tgtctgtggg ctgactaaac 240
gcaccacctc tgctgatgtc atccaggctt tgcttgagga acatgaggct acgtttggag 300
agaaacgatt tcttctgggg aagcccagtg attactgcat catagagaag tggagaggct 360
ccgaaagggt tcttcctcca ctaactagaa tcctgaagct ttggaaagcg tggggagatg 420
agcagcccma tatgcaatth gttttgggta aagcagatgc ttttnttcca gttcctttgt 480
ggcggacagc tgaagccaaa ttagtgcaaa acacagaaaa attgtgggag ctcagcccag 540
caaacttaca tgaagactth accaccagat aaacaaaaaa gattagtcca gggaaaactt 600
tccgggaaac tggctaaaat ttaggcagga cacatthttt catggttcgg gataatatgg 660
gggacnttag ttcc 674
```

<210> 326

<211> 357

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (342)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (354)

<223> n equals a,t,g, or c

<400> 326

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ggcacgaggt gagagccagg cgtccctctg cctgcccact cagtggcaac acccgggagc 60
tgttttgtcc tttgtggagc ctcagcagtt ccctctttca gaactcactg ccaagagccc 120
traacaggta atgggatagg gatacagatt atcctgtgaa gtgatatcga tctggaaaca 180
ggtctgggga gctggagggg ctctagttag ggttctggga gggctctggg ttagtggtgg 240
ggggagcaca ggatatacag gtgctaggaa agagcatgga gtgacctgca gtgtgggagt 300
caggctgggt gtgcagggtg aggaacctgg ggtgttagga tntcagagtg tcangtg 357
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<210> 327

<211> 1579

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (969)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1413)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1574)

<223> n equals a,t,g, or c

<400> 327

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cgcacccacg cctcgctgcc ccgcttcctg ccctcaacct gggcatgcgs cccccacct 120
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```

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```

<210> 328

<211> 2272

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2222)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2263)

<223> n equals a,t,g, or c

<400> 328

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catcagcttg aggaagatat tgtgtcagta acacataaag caattgaaaa agaaaccgaa 240
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cagttgaaga cagagaagga tgaaaaggaa ctttataagg tacatttgaa gaatacagaa 360
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<210> 329

<211> 1320

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1256)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1275)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1290)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1298)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1302)

<223> n equals a,t,g, or c

<400> 329

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cctagttccc agacctcact gctatatgtc ttctccctgg caggcaggat gacgcaaaac 180
acgggtgattg tgaatggagt tgctatggcc tctaggccat cccagcccac ccacgtcaac 240
gtccacatcc accaggagtc agctttgaca caactgctga aagctggagg ttctctgaag 300
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aagtttcttt ttcacctggt ggacactgtg ccttccacag ccaggattgg ttatgagcag 360
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ctcagcttgg gggcctggac tgtgctgmgt gcctcaggct gtgccttctg ggcgggggtct 480
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ctctgctga atagcttcat ctggcaaaact gaaccctttt tatacatcga cactgtgtgt 660
gatcgctcag accctgtctt ccctaccact gggtagacat ggatgcggcg aagtcaagag 720
aaccaatggc agaaggagga gtgtagagct tacatgcaga tgctgaggaa gttgttcaca 780
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ccagaaaaagc artttgcccc raaaaaaaaa aaaaaggcgg gcgctctaaa aggatncctc 1260
gaagggggccc aagcnttaag cgttgcatgn gaagtcanaa gncctttccc taatagtga 1320

<210> 330

<211> 1860

<212> DNA

<213> Homo sapiens

<400> 330

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gaattacaag actcatggca ctggcgtaaa gttgtgtttt atctaatac tgatgaaata 180
ttttcacact tgaaaaatccc caaatgcttt acaatgaatg aagtgttaat ttggtgacca 240
ggtggttagc attagccatg ttgcaaaatt ctagacagta aaacctgtgt tttagaaaca 300
gaggggaaat ttaataaatg gagtccctgt tagcctttca gggattaggg atttggtttt 360
tttttttctt ctctttttaa tactagaata tctcagtttt tataaaaagg aagtttaaaa 420
tgtttattgt gccattattt taactggcat cttgaaagaa cagtaggttt tctccatgat 480
aaactgattc cagtaagaat ttctcagtaca taccaagtag ctggaaagt cttcagataa 540
gttaatatag ccaaggagat acatgcctca gtgagataaa ctgacctttt tactagctaa 600
actatttagc cagagcaata ctctgtagaa ctgtgctttt ctaaaagtaa gattatctgt 660
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gaaatgttgg tcccataatg attgtgctag ttcataagct ttgttgttat gagtgtaatc 780
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tggttaattat cacatttttt tctcttacct tcctttaaat ggccacagtg tgtactgctg 1680
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atattgtttg tattatgaag ttggagtgtg gtctactgaa attatactct taaataaata 1800
tgtatgtagt gtgtaatat ttctaataaa ttcttttgat aaacwaaaaa aaaaaaaaac 1860

```

<210> 331

<211> 1576

<212> DNA

<213> Homo sapiens

<400> 331

```

agccagcagc gcgtgcctgg ccgctcctgc gctctcccgc ctcccggggc tcggaggagc 60
cggggcacgt tccaggagct gcctagggct gaggttccag gcctgggggt cgcttcacgc 120
tgccagatcc cgtgcagtcc tggggaccct gagaagcacc gagccatccc tgaccaggga 180
actttccgca gactcgccgc catctgggag tgaagcaaca tggatgcagt cagccaagtc 240
cccatggaag tcgtgcttcc caagcacatc ctggatatct gggttattgt cctcatcadc 300
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gggtgaggga tgaggacagg catcctatcc ccagcctctt cctgtcttca gaaaagcagc 480
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gtgaatttg tcaagggacc taactctctg agttccaggt tccttatctt tcaaatgggg 600
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tgaaagctgt ttgtgatcag taaagctacc acagatataa ggggtgttatg ctgaatcctg 720
agaagctttc aagaaccaga gaacctgatt gctgatgatg gccttaaagg tggtagggga 780
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gaaaatgctg cttttacttt gatgtgatct cattgatgta cacaaccaag ttccaataaa 1500
gtgctagaat gtgaaaaaaa aaaaaaaaaa actgcgaggg ggggacccgt aaccctaatac 1560
gaccttaatg agtgta                                     1576

```

<210> 332

<211> 576

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (34)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (467)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (556)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (567)

<223> n equals a,t,g, or c

<400> 332

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tcagaaaagt ccacagaaca cccagagaag accncggcaa ccacagagaa aaccacaaga 60
accccagaaa agcctacgct atactcagag aagaccatat gcaccaaagg gaaaaacaca 120
ccagtcccag aaaagcctac agaaaacctg gggaacacca cactgaccac tgagaccata 180
aaagccccag taaagtccac agaaaaccca gaaaaaacag cagcagtcac aaagactata 240
aaaccttcag tcaagggtcac aggagacaaa tctctcacta ctacctcttc tcatctaaat 300
aaaactgaag ttactcatca ggtgcccact ggttctttca ccctcattac atctagaacg 360
agctgagttc tatcacatca gaagccacag ggaaacgaga gccatccata cctcaataaa 420
gatggctcac agaaaggtat ccacgctgga cagatgggag agaatgnatt cattccctgc 480
atggggccata gttattgtgg gtcctggtgg ctgtgattct cctcctggtg ttccttggcc 540
tgatcttctt ggtctnctat atgatngga caggcg 576
```

<210> 333

<211> 1311

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (743)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (764)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1221)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1245)

<223> n equals a,t,g, or c

<220>

<221> misc feature
 <222> (1254)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1273)
 <223> n equals a,t,g, or c

<400> 333
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 gagcacgcgg aacctctacg ctgcgcggtt ccatgacaaa gacaaagagt gcagttgtag 180
 ggagtctggt taccgtgcc a gcagaagcca aagaaagagt caacggcaat tcttgagaaa 240
 ccaggggact ccaaagtaca agcccagatt tgtccatact cggcagacac gttccttgte 300
 cgtcgaattt gaaggtgaaa tatatgacat aaatctggaa gaagaagaag aattgcaagt 360
 gttgcaacca agaaacattg ctaagcgtca tgatgaaggc cacaaggggc caagagatct 420
 ccaggcttcc agtgggtggc acagggggcag gatgctggc gatagcagca acgccgtggg 480
 cccacctacc actgtccgag tgacacacaa gtgttttatt cttcccaatg actctatcca 540
 ttgtgagaga gaactgtacc aatcggccag agcgtggaag gaccataagg catacattga 600
 caaagagatt gaagctctgc aagataaaat taagaattta agagaagtga gaggacatct 660
 gaagagaagg aagcctgagg aatgtagctg cagtaaacia agctattaca ataaagagaa 720
 aggtgtaaaa aagcaagaga aanttaaaaga gccatyttca ccntttcaag gaggctgytc 780
 aggaagtaga tagcaaactg caacttttca aggagcaaca accgtmagg gaagcaagga 840
 gaggaaggag aagagacggc agaggaagg ggaagagtgc agcctgcctg gcctcacttg 900
 cttcacgcat gacaacaacc actggcagac agccccgttc tggaacctgg gatctttctg 960
 tgcttgacag agttctaaca ataacaccta ctggtgtttg cgtacagtta atgagacgca 1020
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 taagaatctt ggatgttgg naagggaata aaataccatt tttcnaattt accngggaaa 1260
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<210> 334
 <211> 1118
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (10)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1115)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1117)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1118)

<223> n equals a,t,g, or c

<400> 334

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gacacctaca acgagatgcc ttaagccagc tcatgaatgg ccccatcaga aagaagctca 180
aaattattcc tgaggatcaa tcctggggag gccaggttac caacgtcttt gtgaacatgg 240
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tgtacagtga ccctaaatct ttggaaacat ctgcttttgt caagtcctac aagaaccttg 480
ctttctactg gattctgaaa gctggtcata tggttccttc tgaccaaggg gacatggctc 540
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gtttggcctt ggggcacaga gctgagctga ggccgctgaa gctgtaggaa gcgccattct 660
tcctgtatc taactggggc tgtgatcaag aaggttctga ccagcttctg cagaggataa 720
aatcattgtc tctggaggca atttggaaat tatttctgct tcttaaaaaa acctaaagatt 780
ttttaaaaaa ttgatttgtt ttgatcaaaa taaaggatga taatagatat tattttttct 840
tatgacagaa gcaaatgatg tgatttatag aaaaactggg aaatacaggt acccaaagag 900
taaatacaaca tctgtatacc ccctccccag gggtaaacac tgttaccaat ttagcatatg 960
tccttgacaga attttttttt ctatatatac atatatattt tttacccaaa tgaatcatta 1020
ctctatgttg ttttactatt tgtttgacat atcagtatat ctgaaacacc ttttcatgtc 1080
aataaatgtt cttctctaac attttwaana aaaaanann 1118

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<210> 335

<211> 2266

<212> DNA

<213> Homo sapiens

<400> 335

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ggggggcttg taggccgctg ctttgtctct tcgtccagag ccttatgtaa gagcttttct 180
cgggaaacag gaagtcctgc ttgccaattt cagcacaggg agtagtgacg gccttattcc 240
aacacacccg gccagcctt aaccccagaa ctcagccagt ttcttgcttc cgtgccctctg 300
gttctcctcc ccacgagcc caccctcct tccccacct cagtcacccc tagtgaactg 360
ccccagcgat ctctgctgtg cttgaccccg agggcttcc accctcgccc tgaccctgga 420
cactgcccag cttggccccc cactctgctc ctggcacaat gccctctagc cagccaacct 480
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gtgccatggc tctgctgacc caacaaacag agctgcagag cctcaggaga gaggtgagcc 1020

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aaatattatw cacaggagst agtgatctat gttgggttta gatcaagcca aggtcattca 2220
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<210> 336

<211> 1132

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (214)

<223> n equals a,t,g, or c

<400> 336

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tcggggaaacc aggggaccct ctgcacgttg gagttcgcgg tgcagatgac ctgtcagagc 180
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aaggagtcat cgcagcccc tgcccacct tgagcaggac ctcacctgg ctctgttgc 960
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tttatttttcg tttgggaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aa 1132

<210> 337

<211> 2229

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2208)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2216)

<223> n equals a,t,g, or c

<400> 337

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gaagccctgg gattctgcta atacctatca ctgtaggtgc tgaagggaaa cagatgaaga 120
acatgacctc aaggagcttc ctgtcaatga gaagaccaag ctgacgcctg gcaaagatat 180
taaagaggag cctgaaactg ttccttggac atcttatgaa tgtcagaaaa taccttttgg 240
agggttagaa gatcagggga catggttggt cacatttgct gccacggaac accgccagtc 300
ttcacttgga aacagaatca cgccttgtga agagatcatc cctaagcagg agagaagcta 360
ctaaaggatt gtgtcctcct ccaccttccc tgtgtctcgg ctccacctgt ctcccattct 420
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cacttgggtc tggagtccag ggaatctcaa agccagtact gtaggaatat cttgtataat 600
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<211> 3728

<212> DNA

<213> Homo sapiens

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<221> misc feature

<222> (3707)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3713)

<223> n equals a,t,g, or c

<400> 338

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<210> 339

<211> 2674

<212> DNA

<213> Homo sapiens

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<221> misc feature

<222> (20)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2646)

<223> n equals a,t,g, or c

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<221> misc feature
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<220>
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<220>
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<222> (2666)
<223> n equals a,t,g, or c

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<210> 340

<211> 1457

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (380)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1457)

<223> n equals a,t,g, or c

<400> 340

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<210> 341
<211> 3399
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (2512)
<223> n equals a,t,g, or c

<400> 341
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<210> 342

<211> 1929

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

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<221> misc feature

<222> (14)

<223> n equals a,t,g, or c

<220>

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<222> (1894)

<223> n equals a,t,g, or c

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<221> misc feature

<222> (1913)

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<220>

<221> misc feature

<222> (1918)

<223> n equals a,t,g, or c

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<210> 343

<211> 1561

<212> DNA

<213> Homo sapiens

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<221> misc feature

<222> (1311)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1538)

<223> n equals a,t,g, or c

<400> 343

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<210> 344

<211> 2982

<212> DNA

<213> Homo sapiens

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<221> misc feature

<222> (20)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (795)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1329)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1995)

<223> n equals a,t,g, or c

<400> 344

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<210> 345
<211> 1654
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (5)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (14)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (26)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (41)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1538)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1546)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1584)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1630)
<223> n equals a,t,g, or c

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gagcaacttt attttatggt taccatattt ttaaaaagat tttttgtcag ggtgacttaa 180
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<210> 346

<211> 498

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (252)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (493)

<223> n equals a,t,g, or c

<400> 346

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cggttttagag ganccaag 498

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<210> 347
<211> 3176
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (2546)
<223> n equals a,t,g, or c

<400> 347
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<210> 348

<211> 1127

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1017)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1047)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1057)

<223> n equals a,t,g, or c

<400> 348

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<210> 349

<211> 2135

<212> DNA

<213> Homo sapiens

<400> 349

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<210> 350

<211> 1578

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1577)

<223> n equals a,t,g, or c

<400> 350

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<210> 351

<211> 974

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (935)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (971)

<223> n equals a,t,g, or c

<400> 351

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<210> 352

<211> 2601

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2520)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2572)

<223> n equals a,t,g, or c

<400> 352

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<210> 353

<211> 921

<212> DNA

<213> Homo sapiens

<400> 353

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<210> 354
<211> 1311
<212> DNA
<213> Homo sapiens

<400> 354
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<210> 355
<211> 2253
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (430)
<223> n equals a,t,g, or c

<400> 355
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ggcgatctcc caaggcctgc ccgaggcctc tgtcctctgt cctcagcccc gcagcggcaa 180
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<210> 356

<211> 1235

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

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<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1109)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1154)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1169)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1171)

<223> n equals a,t,g, or c

<400> 356

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```

<210> 357

<211> 1408

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1396)

<223> n equals a,t,g, or c

<400> 357

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gccccacggg ggaagaaaaca gaaaaagaca agaatgagac tgagaatgac tctaaagatg 180
ctgagaaaaa cagagaagaa tttgaagacc agtcccttga aaaagacagt gacgacaaaa 240
caccagatga tgaccctgag caaggaaaat ctgaggtagg tgatttcaaa tcggagaagt 300
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tcatcaccag attgcggaat ccagatagca aacttagtca gctgaagagc cagcaggtgg 420
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tcaacaatta tyttaaatg ggtcaagaag ggaagtatcg cgtctaccac aatcaatact 600
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ccaccaattc atttgctttg aataagcacc agcacagaga agaccatgat aagagaaggc 660
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atgggtccaa agttcttacc atatctactc tgagactgac tatcacccaa ttagaaaaca 780
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<210> 358

<211> 872

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (803)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (813)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (871)

<223> n equals a,t,g, or c

<400> 358

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<210> 359
<211> 1744
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1744)
<223> n equals a,t,g, or c

<400> 359
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tcggtcctgc ttttatccac atccagcctc atccacaccc gccaggkctc ctccctggga 180
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gaattgatgg ggggaagatt aagaaggctt tgtaagacta taagttagtt tgctgtgaag 360
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cccn 1744

<210> 360
<211> 673
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (653)

<223> n equals a,t,g, or c

<400> 360

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aaaagaaaac cataggcaaa attgcaacat gcttgggaat tgcgagtga gctttacagt 420
ccacacagtc tcaagaagaa tttaaactgg aggacctgaa gaagctagaa ccaatcctaa 480
agaatattct tacatataat aaagaattcc catttgatgt tcagcctgtc ccattaagaa 540
gattttggca cctggtgaag aagagaattt gggaatttgg aagaagatk aagaagaggg 600
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tttacccaag gtt 673
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<210> 361

<211> 1324

<212> DNA

<213> Homo sapiens

<400> 361

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ggcttcggct cggatcagtc cgagaatgtc gaccggggcg cgggctccat ccgggaagcc 180
ggtggggcct tcggaagag agagcaggct gaagaggaa gatatttccg gtgaggctca 240
ccgggtccca agtcagccc tggatctccc aatggccttc caatccttaa actgccaatc 300
gccccacccg ttcctacctg gtgccttggg cgccccatcc cccaacagaa ctcccgggcc 360
ccaatccagt ataccctaac ccttgatgtc ccgaccgttg ccacgtatag ggactccca 420
gttacctgca caacagtttc agggccccc aaaccgtttcca ccggcgggtc tccaaaacaa 480
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<210> 362

<211> 678

<212> DNA

<213> Homo sapiens

<220>
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 <222> (14)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (469)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (490)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (658)
 <223> n equals a,t,g, or c

<400> 362
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<210> 363
 <211> 5236
 <212> DNA
 <213> Homo sapiens

<400> 363
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 tgcagactcc ctagcattc tcagtgtttg cttgggtggca atggagccgc aaggctcttt 600
 tgttattatg ccagmytctg tgtcaactgg ttctgtatgt ggaagaagca cgactctaaw 660

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<210> 364

<211> 1020

<212> DNA

<213> Homo sapiens

<400> 364

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<210> 365
<211> 2208
<212> DNA
<213> Homo sapiens

<400> 365
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<210> 366
<211> 2755
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature

<222> (336)

<223> n equals a,t,g, or c

<400> 366

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<210> 367
<211> 1964
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (126)
<223> n equals a,t,g, or c

<400> 367
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<210> 368
<211> 3047
<212> DNA
<213> Homo sapiens

<220>

<221> misc feature
<222> (2971)
<223> n equals a,t,g, or c

<220>
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<222> (3027)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (3036)
<223> n equals a,t,g, or c

<400> 368
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<210> 369

<211> 2411

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2406)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2407)

<223> n equals a,t,g, or c

<400> 369

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cttgctgttt tctgatgatt tgggggcttg ggagtccctt tgcctcatc tgagactgaa 2160
atgtggggat ccaggatggc cttccttcct cttacccttc ctcctcagc ctgcaacctc 2220
tatcctggaa cctgtcctcc ctttctcccc aactatgcat ctgttgtctg ctcctctgca 2280
aaggccagcc agcttgggag cagcagagaa ataaacagca tttctgatgc caaaaaaaaa 2340
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa tcgagggggg gcccgtaacc aatcgcccta 2400
catganngtat 2411
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<210> 370

<211> 421

<212> DNA

<213> Homo sapiens

<400> 370

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gttaagagaa agaccaataa tccagtagaa aactgggaaa aggtggcatc tgcagggtaa 60
caccagggca gcacagaaat cttgctggga tgaggagctg caaacatgtg tggtcgactt 120
tttggccttc tgcctcttct actctcaggg atgggggatt acaactaaag aagttgtctt 180
ttggccgggc gtggtggtc acgcctgtaa tcccagcact ttgggaggcc gagggcgggt 240
ggatcacaaag gtcaggagat caagaccatc ctggctaaca cgatgaaacc ccgtctctac 300
taaaaaattc aaaaacattg gccggcgagg tggcgggcac ctgtagtccc agctgctcgg 360
gaggcttgag gcagaagaat tgtgtgaacc cgggaggcgg agcttgacgt gagcccagat 420
c 421
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<210> 371

<211> 523

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (402)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (404)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (440)

<223> n equals a,t,g, or c

<220>

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<222> (461)

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<220>

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<222> (470)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (481)

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<220>

<221> misc feature

<222> (516)

<223> n equals a,t,g, or c

<400> 371

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agtactcaac atatgttggc tattttgaag aaaatactac atatgttcat atataataga 120
ggtatttctg ggtttttttg ttttttggtt ttgctttttt ttgagacgga gcttgctctg 180
ttgcccaggc tggagtgccca tggcacgatc tcggctcact gcaagctccg cctcccgggt 240
tcacgccatt ctctgcctc agcctcccga gtagttggga atacaggcgc ccaccaccac 300
gcctgggcta atttttttgt atttttttag tagagacggg gatttcactg tgtagccag 360
gatggtctcg atctcctgac ctctgtgatcc acccacctcc gntnccaaag tgctggggat 420
tacaggcgtg accaccgggn ctgggcgaag attcctttag natcctgatn cctctctggc 480
nagattaatt atataagaat aggggcctta atggtncatt aat 523
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<210> 372

<211> 395

<212> DNA

<213> Homo sapiens

<220>

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<222> (205)

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<220>

<221> misc feature

<222> (217)

<223> n equals a,t,g, or c

<400> 372

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gccacgcccg gcttatttcg tatttttagt agagacgggt ttccgcatgt tggtcaggct 60
ggtctggaac tcctgacctc aagtgatcca cctggctcag cttaccgaag tgctgagatt 120
ccgggtgtga gccaccgcgc cttagccctct aaacttttaa ataatcgtga aatgtatgcg 180
cagctgaagc gaattcagct atttncctct acccttngtg tggaatttaa aatactgaac 240
ttgtgagatg aacctgggtg gcaccagttc tcaaacttct tggtcacagg acgcttgcac 300
tctcttaaaa tgtactgagg acacctaaaa gcttttgctc actgttggtt actactgcta 360
tttactaaca tagaaattaa acatattaaa atatt 395
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<210> 373

<211> 468

<212> DNA

<213> Homo sapiens

<220>

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<222> (380)

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<220>

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<222> (421)

<223> n equals a,t,g, or c

<220>

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<222> (449)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (450)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (464)

<223> n equals a,t,g, or c

<400> 373

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gggggtttca acatgttggc caggctggtc tcgaactcct gacctcaggt gatccatccg 60
ccttggcctc cttaaagtga gggattacag gcattaccca ctgtgccag tcactataga 120
gattattaca ttacaataaa gaaaaaaact ttcaggactc tcatggagag ctgaagtgtt 180
catgaatatc aagcagaaca ggagttaact gaatagactc aaccaataga aaattaaagc 240
aatttttttt ttttttgct taaaagattg ctgatccttt ttgtttctca gagttaagaa 300
aacttttctt ttgagctatt ttcagctttt aacaattgag taaagtatat tcctgtgaac 360
aaaatttgaa gcatatttgn ttctctttac ccgatttctc cagatttttg aaactatttg 420
ngagtattct taacttaatg gcaatatann tatttgcata agtncaat 468
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<210> 374
<211> 499
<212> DNA
<213> Homo sapiens

<220>
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<220>
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<222> (265)
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<220>
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<222> (284)
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<220>
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<220>
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<222> (319)
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<220>
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<220>

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<222> (430)
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<220>
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<222> (438)
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<220>
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<220>
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<220>
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<222> (480)
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<220>
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<220>
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<222> (488)
<223> n equals a,t,g, or c

<220>
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<222> (490)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (491)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (492)
<223> n equals a,t,g, or c

<400> 374
aattcggcan agcaccacac ccggctaatt ttgtattagt agagatggag tttcaccatg 60
ttggccaggc tggctcaga ctctgggct caagtaatct cccacctca gcctcccaca 120
gggctggctg tcaattgttt ttaagttgtt aaagtgtctc cggggaagct aaacttaaca 180
caggactggg agagacacca ccttcctgtg ggtggggctg cctcctacct ggagcagcac 240
tcatctccac ctgggcactc cgtgnaaagg ggaggagac tctntggctg ncagatgagg 300
gtggccctgt ccgtgtgtnc ccagggtgg gtcaacanca tttnttcctn ttgccagggt 360
tagatggatt tnatttttnc cggggggaag ggaaggngct ctggtttngg ggatttgtna 420
atctctgggn aanacnangt tttgnaaaga attttttagg gttnggtggg gtgtaggaan 480
tntnctntn nnaggtttc 499

<210> 375
<211> 493

<212> DNA
<213> Homo sapiens

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<220>
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<222> (33)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (65)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (76)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (162)
<223> n equals a,t,g, or c

<220>
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<222> (210)
<223> n equals a,t,g, or c

<220>
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<222> (285)
<223> n equals a,t,g, or c

<220>
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<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (359)

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<220>

<221> misc feature

<222> (360)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (366)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (370)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (375)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (387)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (391)

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<220>

<221> misc feature

<222> (415)

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<220>

<221> misc feature

<222> (424)

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<220>

<221> misc feature

<222> (452)

<223> n equals a,t,g, or c

<220>
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<222> (464)
<223> n equals a,t,g, or c

<220>
<221> misc feature
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<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (486)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (488)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (491)
<223> n equals a,t,g, or c

<400> 375
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cgggnggttg agattncagt gagcccagat cgcaccactg cactccagtc tggcaacaga 120
ggcaagactc catctcaaaa agaaaagaaa agaagactct gnacctgtac tcttgaatac 180
aagtttctga taccactgca ctgtctgagn aatttccaaa actttaatga actaactgac 240
agcttcatga aactgtccac caaggccaag cagagaaaat aattnatttc catggggact 300
taaatggaac ttntgngggg ttattathtt ncataathtt tttatttgga aatttttgnn 360
tggttncctn taaanggtct tggtttnccc ngattttcag ggaaactttt tttgnttttt 420
aggntttcca cagtttacgg caatttgggt tnaaatatac tttntggggg accaaaattg 480
ggggntntg naa 493

<210> 376
<211> 364
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (30)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (56)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (134)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (192)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (202)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (203)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (204)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (205)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (206)
<223> n equals a,t,g, or c

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<220>
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<222> (208)
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<220>
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<222> (210)
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<220>
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<222> (211)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (212)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (214)
<223> n equals a,t,g, or c

<220>
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<222> (228)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (271)
<223> n equals a,t,g, or c

<220>
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<222> (311)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (338)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (354)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (361)
<223> n equals a,t,g, or c

<400> 376

tataaaatgc tgaaactccg tctctactan ggatacaaaa aatagccagg cctggnggca 60
ggcgccctgta atcccagcta ctcgaggaggc caaggcagga gaattgctcg aactcagggg 120
gtggagggttg cagngagttg agattgtgcc attgcaactcc agcctgggca acagagcaag 180
actctgtctt angaaaaaaa annnnnnnnn nnangaaaaa caacatantg gggtttctgt 240
caatctgtcc tcggctgccc ttctcatttg ntgatgggac cttgaaagca agcttgctag 300
gtgccctctg nggctccagc ctttaccgga agtgtggngc atgtttttaa cttnagggaa 360
ncgg 364

<210> 377

<211> 152

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (4)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (12)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (18)

<223> n equals a,t,g, or c

<220>

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<222> (43)

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<220>

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<222> (83)

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<220>

<221> misc feature

<222> (109)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (124)

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<220>

<221> misc feature

<222> (125)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (147)

<223> n equals a,t,g, or c

<400> 377

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atctgttact gatcatgtaa acntgctcac accgctggtg aagcctgtna cagaacttta 120
cctnntgttt tcgagcctat gagtgcnctc tc                                     152
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<210> 378

<211> 647

<212> DNA

<213> Homo sapiens

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<220>

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<222> (22)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (25)

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<222> (79)

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<220>

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<222> (80)

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<220>

<221> misc feature

<222> (490)

<223> n equals a,t,g, or c

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<222> (633)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (647)
<223> n equals a,t,g, or c

<400> 378
naggaaatct aagaatctct tntgnaatgc cccgcctgca ngtagcggtc cggaattccc 60
gggtcgaccc acgcgtccnn gcaaattaga tacaaagtaa gcagaagaaa agaaataaga 120
attagagcag gaatcaatga agttgaaaat aggaactcaa tagagacaat caacaaagtc 180
aaaaagctgat tatttgaaaa gattaataaa atcaataaac ctctaaccag gctaactaag 240
caaaaagaga aagaacataa attgctaata tcagaaatga aagagtggac atcactacag 300
atcccatgga cattaggagg ataataaagg aatgctctga acaactgtat gctcacatat 360
ttgataacct agatgaaatg gagcaagtcc ttgaaagaca caatctgcca aaactcacac 420
aagaagaaat agaccatctg aataggccta tatctatctt aaaatttgaa tcaataatta 480
ataacttttn caaacagaaa gcactaggcc cagatgtatt tgctgggtgaa ttctaccaa 540
catataagga agacattata ccaattatct ataatctctt ttggaggata gaagcagaag 600
ggaatacttt ctggcttatt ttgggagggc agnattactc taatacn 647

<210> 379
<211> 416
<212> DNA
<213> Homo sapiens

<220>
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<222> (231)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (314)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (359)
<223> n equals a,t,g, or c

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<222> (360)
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<220>
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<222> (362)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (368)

<223> n equals a,t,g, or c

<400> 379

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actcagctaa gagcatcgag ggggcgccga gaggcaaggg gcggggacgg gcggtggctc 120
gcctcgcggc ggaccgcccg cccgctccca agatccaaact acgagctttt taactgcagc 180
aactttaata tacgctattg gagctggaat taccgcggct gctggcacca nacttgccct 240
ccaatggatc ctcgttaaag gatttaaagt ggactcattc caattacagg gcctcgaaaag 300
agtccctgat tgtnattttt cgtcactacc tccccgggtc gggaatgggt aatttgcggn 360
cntgctgnct tccttggatg tgggaaccgt ttctcaggtc cctctccgga atcgga 416
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<210> 380

<211> 310

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (107)

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<220>

<221> misc feature

<222> (157)

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<220>

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<222> (180)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (201)

<223> n equals a,t,g, or c

<220>

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<222> (269)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (296)

<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (299)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (301)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (310)
<223> n equals a,t,g, or c

<400> 380
gcactacccat acgtatttca attaccagtg aaagaagcac tccattaaca actctccttg 60
tcagcaccac acttccaact agctttcctg gggccagcat agcttcnaca cctcctcttg 120
acacaagcac aacttttacc ccttctactg aactgnctc aactcccaca attcctgtan 180
ccaccacccat atctgtatca ntgatcacag aaggaagcac acctgggaca accattttta 240
ttcccagcac tcctgtcacc agttctacng ctgatgactt tcctgcaaca actggngcng 300
natctaccn 310

<210> 381
<211> 247
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (216)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (225)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (226)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (228)
<223> n equals a,t,g, or c

<220>
<221> misc feature

<222> (238)

<223> n equals a,t,g, or c

<400> 381

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ccagtaagcg ggcccggcct gcggaggtgg gcggcatgca gctccgcttt gcccggtct 120
ccgagcacgc cacggcccc acccggggct ccgcgcgcgc cgcggggtac gacctgtaca 180
gtgcctatga ttacacaata ccacctatgg agaaanggcc ccccnngngg aacgcatnag 240
atagtgt 247
```

<210> 382

<211> 197

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (85)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (132)

<223> n equals a,t,g, or c

<400> 382

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ccaggctaga gtgcagtggc tattcacaga tgcgaacata gtacactgca gcctccaact 60
cctagcctca agtgatcctc ctgtntcaac ctcccaagta ggattacaag catgcgccga 120
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ctgttcccag gatggtgac cgtgtatata ttgcatcttc ctctggctct acagcgatta 180
agaagaaaca acaagatgtg cttggtttcc tagaagccaa caaaatagga tttgaagaaa 240
aagatattgc agccaatgaa gagaatcggg agtggatgag agaaaatgta cctggaaaaat 300
agttcgacca gccacaggtt taccctctgc caccttcaga ttttncaatg gaaagccagt 360
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ctnctccttc tgggtccaagt acatctcgtc tctgangaca tctgcagatg gagccaaggg 180
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ggcaagggac cctgaaggcc aagaacttca agaagagatg cctgcaggcc accatcaccc 180
aggacagcac ctacggggat gaagactgcc tgtacctcaa catttgggtg ccccagggca 240
ggaagcaagt ctcccgggac ctgcccgtta tgatctggat ctatggaggc gccttcctca 300
tggggtccgg ccatggggcc aacttcctca acnactacct gtatgacggc naggagatcg 360
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acgacgctcc ccgagccgtg ttctcttcca tcgtcgggcy ccccaagaca ccagggcgctc 180
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 agagaaggat gnggatggcc tggaccgcac agctggngca attcgaggcc gggcagcccg 180
 ggtcattcac gtagtcacct cagagatgga caactatgag ccaggagtct acacagagaa 240
 ggttctggaa gccactaagc tgctctccaa cacagtcattg ccacgtagaa gccagccng 300
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 cgccctggtat atgatggcat ccggggacat caggaaagca gtgctganga taagggancc 420
 cctgaggagt tggatgactc tgactttgag acaggaggat ttgatgtcag aagcaggacg 480
 agcgtccaga cagaaganga tcagctgana gcnggccaaa gntgcccggg cgancaaggc 540
 t 541

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 caggacagac ggccaggatc acctgtctctg gagatgcatt gccaaagcaa tatgcttatt 180
 ggtaccagca gaggccaggc caggcccctg tgcagggtgat atataaagac agtgagangg 240
 cctcaaggat ccctgagcga atctctggct ccagctcang gacaacagtc acattgacca 300
 tccagtgggg tccaagcaaa aaacaaagct gaatattact gtcatccaca aacacantgg 360
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aactccccca acagcgaacc gccactcct aaganggcct gggcagaaac ctctcggcct 180
ccagagacag agccgggacc tcctgccccca aagcncctcc taccctccacc tcancggggc 240
cccgcnnggga actggggccc ccctggggac taccagatc gtnggggtct tcctgcaagc 300
ccccagcacc ttgaagttga ggatgaggct tggcggcacg acgaaagcan tcgtcttttg 360
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acctggagat caccaagaan atgggcagca nctccatgaa gtggagcctg anaactaact 180
tcctgcgcta ctggaccctc ncctatctgg ctctgcccac agtgaaccga ccangangcc 240
accctgtgc cccccacagg ggaactccga ngnetctccc gtgctcnccc anggggtgagt 300
ccgaggattg ccccatgct ggncaccggt gagtccgggg gattcccca 349

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<212> DNA
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<400> 391

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gacaggcatg tgccacctat gaaagtgcct ccctgcgcat gtttcacctg ggccgcaccg 180
acaccatccg ctcggttcc atggactcac tcacctttgt caaggccatg gatgactcca 240
gcgtcacgga gcaccagaag gtggagctgc tgcggaaggc cgtgcaggcc caccgaggct 300
acaccgaccg ggccatccgc ggggaggcct ttgatcgaca cctgctgggc ctgaagctgc 360
aggccatcga ggacctggtg agcatgcccg acatcttcat ggacaccttc tacgccatcg 420
ncatgcactt cacctcttca cagccaggtc ctgcaagaca gatgtgcatg tcttcggggc 480
cgtggtcccc acggctacgg gnctgntata acccatggag gccacataac ttctccctgn 540
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cgctgctgtc gcatccggtt cacctgggcc ctggccctgc tgcagtgcct caacctggtg 180
ttcctgctgg cagacgtgtg gtccggcttt ctgccaagca tctacctcgt cttcctgac 240
attctgtatg aggggctcct gggaggcgca ctaacggtga acacctcca caacatcgcc 300
ctggagacca gtgatgagca ccgggagttt gcaatggggg gcaactgcat ttgaaaaat 360
ggggattncc tgtcgggggc tgggnttgct ctgnagattc cttggcagtc tctgaaatcg 420
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<211> 407
<212> DNA
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ccacagaccc aggcgctggg gccgaaattc ccaccagcac cgncgacacc tccaactcct 180
ccaatncagc tccgcctcca ggggaaggtg cggatgactt ggaggggggag ttcactgagg 240
aaacgatccg naaccttgac gngaactact acgacccta ctacgaccn accagctccc 300
cggtcggaga tcggnccggg aatgccggng aaccaggata ccatctatgn agggatttga 360

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407

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<212> DNA

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tttgtaataa tnttcttcat agtnatnacc ctcataatng gtggntttgg ncaactgact 180
agttccctaa taatgggtgc cccgatatgg ggtttgcccg catnaaaca cataagcttc 240
tgactnttaa cctcct 256

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tgtccagagc cccggnccatc ttcagccact cctcggccta cagcgtgtgc gcaagccggc 180
gcaacgtgcc tgacgacgtn ctgaggctgg tgaaacanac agacagcctg gtgatggnga 240
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atctggatca catcaaggag gtggcangag ccaganccgt ggnttttggg gnggactttg 360
atggtggtcc aagggtccct gagngctgn aggacgctnc aagtatccag acctgatcgc 420
tgancgttta agangaactg gacggaggcg gaaggcaagg gcncactggc ttgacaacct 480
gntgaggtct tcgaggcttg ggaacaagtc aacaaactta cacaggcttc cgaggaggag 540

ccatccggttg gacactgggtg gttctgcagg accaatacgg tatcttgggg cttcagctca 600
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<210> 396

<211> 252

<212> DNA

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cgcaggaagc ccacggtggt cactcgagtc tccgccttca tcgactggat tgaggagacc 180
atagcaagcc acttagaaac caaaggccca ccttgccaat tnctgaatcg atcccacatc 240
cttgaaatta aa 252

<210> 397

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<212> DNA

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agaaagagag gatctttatg caaaaattca ggctggtgaa ggagagactg ctgttcttaa 180
ccagttacaa gaaaaaaacc atacactaca ggagcaagta actcaactaa cagagaagct 240
ggaagaatca gtcagaaagt tcataaaciaa gccaggagg aatttgcatt gaccaggta 300
aagagcagaa gggcacntct tagagctggc acaagaccgt gttccttttc cctagaaact 360
agtggttcat ggaattttaa ttagtccatt taatggaang ccaggagaa ggttctcccc 420
agcttggacc ttaccgggta aaggccaaac cggaantttt actttcagcc gaggccgcaa 480
aactgggtcc aagggcnggt cttcagatcc atttgggnca cngttccaan ggctttacca 540
ggt 543

<210> 398
<211> 284
<212> DNA
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<220>

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tcccacaatag tgcttatggg ggccctgant tttccagtac cttcttttct cccaccggga 120
ctccccttna attnagcagc ctattcctnt cccaagcttc gtggaagctt tccccctgct 180
tccttgtaag gccagggaag tgtntgaatg cggagaacag nnactccact gtggcgangg 240
gacaggacag gccactacct atgataacgc ctgcggnctc tttt 284

<210> 399
<211> 427
<212> DNA
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<220>
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<220>
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 gacaatgaca atgataagtt tgaaggcaac tgtgctgaac aggatggatc tggttggtgg 120
 atgaacaagt gtcacgctgg ccatctcaat ggagtttatt accaagggtgg cacttactca 180
 aaagcatcta ctcctaattg ttatgataat ggcatatttt gggccacttg gaaaaccggg 240
 tggttattcca tgaagaaaaac cactatggaa ggtaaatccc attcaacaga ctcacaattg 300
 gaggaaggac agcaacacca cctgggggga gccaaacagg tcagaccaga gcaccntgcg 360
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 ctttttg 427

<210> 400
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 <212> DNA
 <213> Homo sapiens

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<220>
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 aagttcaatc tggaaacatc aatgctgcca agactattgc agatatcatc cgaacatggt 180
 tgggacccaa gtccatgatg aagatgcttt tggacccaat gggaggcatt gtgatgacca 240
 atgatggcaa tgccattctt cgagagattc aagtccagca tccagcggcc aagtccatga 300
 tcgaaattag ccggacccag gatgaagagg ttggagatgg gaccacatca gtaattattc 360
 ttgcaggggga aatgctgtct gtagctgagc acttcctgga gcagcagatg caccacacag 420
 tgggtgatcag tgcttaccgc aaggcattgg atgatatgat cagcacccta aagaaaaataa 480
 gtatcccagt cgacatcagt gacagtgata tgatgctgaa catcatcaac agctctatta 540
 ctaccaaaagg catcagtcgg 560

<210> 401
 <211> 584
 <212> DNA
 <213> Homo sapiens

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<221> misc feature
<222> (582)
<223> n equals a,t,g, or c

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agaacttgga ccttctcgct tctgtcctcc gtttagtctc ctctcggcg ggagccctcg 120
cgacgcgccc ggcccgagc cccagcgca gatggccgcg tttgaaggat gacctctagg 180
aagaaaagtgt tgctgaaggt tatcatcctg ggagattctg gagtcgggaa gacatcactc 240

atgaaccagt atgtgaataa gaaattcagc aatcagtaca aagccacaat aggagctgac 300
tttctgacca aggatgtgat ggtggatgac aggctagtca caatgcagat atggggacac 360
agcaggacag gaacgggttc agnctctcgg tgtggccttc tacagagggtg caaactgctg 420
cgttntggta tttgatgtga ctgccccnaa cacattcaaa accctanata gctggagaga 480
tgaagtttct catncaggcc agtccccgag atcctgaaaa ctttccatct ggtgggttgg 540
gaaacaagat tgacttttaa aacanacaan tgggcacaaa nngg 584

<210> 402

<211> 334

<212> DNA

<213> Homo sapiens

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<222> (332)

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tgctgatgat ttcttccaag gaaccaaggc ggccctggct gggggaacca ctatgaatca 120
ttgaccacgt tgctcctgag cctgggacaa gcctgctcgc tgcctttaac cagtggaggg 180

aatgggccga cagcaagtc tgctgtgaac tactctctgc atgtggacat cagcgagtgg 240
nataagggca tccagggagg agatggaagc gcttgtnaaa ggatcacggg ngtaaattnc 300
ttccttggtg ttacatgggc tttttgaaaa gnat 334

<210> 403

<211> 378

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

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<400> 403

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tggcccatct cgggcagaag ctggcagtgg tgggcctggc ttcacctca ccttccgcag 120
ccccgaggag gtcttcggg aattctttgg gattggagac ccttttgag agctctttga 180
tgacctgggc cccttctcaa gagcttcag aacgggggtc ccgacactca agccccttct 240
ttacttctct tcctccttcc ctgggcatcc gattctctc ctcattctct ccttcaatcc 300
tgggctggtg ctttccctct gtttctactc tacaccttg tccaaggaag cccatcccca 360
ccccaaatcn tgaaaaac 378

<210> 404

<211> 300

<212> DNA

<213> Homo sapiens

<220>

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<222> (232)

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<222> (242)

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<222> (260)

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<222> (275)

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<400> 404

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agcgaagctt ttttctcaga atgaagtgtg ccctaactag ccgaggaaga actatgaaca 120
taaagtctgc aacatggaag gtattgcact gcacaggcca cattcacgta tatgatacca 180
acagtaacca acctcagtgt gggataaaga aaccacctat gacctgcttg gngctgattt 240
gngaacccat tcctcaccn tcanatattg aaatnccttt acataccaag actttcctca 300
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<210> 405

<211> 502

<212> DNA

<213> Homo sapiens

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<222> (145)

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<222> (285)

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<400> 405

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tgcacatgta ggagacagaa tcacnatnac ttgccgggcc agtcagncta ttgaaaactg 180
gttggcctgg tatcagcagn agccagggaa accccctaaa ttactcctaa tctctgatgc 240
ctcctctttg gngagtggag tcccatcaag gttcagcggc atggntctgg gacggaattc 300
actctacca ttccagcct gcagctgaag nttttgcaat tattactgcc aacagtttat 360
agttatcctt acattttggc cagggcccag tggggtttca aagaattgtg gntgcaccat 420
tgtnttaatt ttcccgccct tgntggggcn ttnaatnggg actgccctnt tgtgtgcent 480
gganaatttt ntcccggggg cc 502
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<210> 406

<211> 289

<212> DNA

<213> Homo sapiens

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<222> (237)

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cagttccatt cccagatagc agcccagacc tncgcttcag ttctagcaga agaattacat 120
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aaagtgattg cagaaaagga taagcagata aaacagactg aagattcttt aacaagtgaa 180
cgtgatcggt taacaagtaa agaagaggaa cttaaggata tacagaatat gaatttntta 240
ttaaaagctg aagtgcagaa attacangcc ctgnnaaang agcaggctg 289

<210> 407

<211> 434

<212> DNA

<213> Homo sapiens

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<222> (301)

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<400> 407

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tgatcttttc aagaaagcag gatggactat cattactcct ccaacaccaa tcatcccaga 180
cgatcatcca ctctgggatg tcatccaaat ggctttccat gaatgtctta atgctagatg 240
aaaaacgtgt tatggtggat gccaatgaaa nttccaattc aaaaanatgtt tgaaaaagct 300
nggtntccta ccattaaaag ttnacattcn ttatgnccat tcccctggga agaagnttcc 360
attggctgga cctgcgaatg ttcnggggcc aaagcacctt acaanccctc tttggantga 420
acaggcctaa tgga 434
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<211> 458

<212> DNA

<213> Homo sapiens

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<220>

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gccgnttggg caagatcaca ggtcttgat ccaacggggc cgtgcnccn agataanccn 180
gaagangttc ggtgggancc atcnnacgcc gtgtgtgtng atgtgattca cacatattct 240
tcncccatc ntccnccccg ntgtttcaga atgacccaag nagtgngcca tctggatttc 300
nntccangtg gaagaaaaga cngcccgnat gtaaaaaanat gttcttncca ccatnactga 360
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 ctgccgcggg cggacacgcc agaggaggan gccggggaat ggccgcggtg tggcagcaag 180
 tcttagcagt ggacgcgagt ttcggacgca gtatatccgc ggcgcagcca gctgctgcgg 240
 gaanaatgcc aagggtgggc acccccagcg ctgcttcggg antacctgaa gcttcngggg 300
 cntnttgttg ggccannnct acggncctc tccnaancaa ggagtgtctc gtgcctataa 360
 caacagcatc gtccggaagt anccgcactt actctnggan cggntggaag gacttnggaa 420
 gaatnatccc ccnggnccct ngggggggccc gtgggggcanc ctcctttcct tttcaaaaaa 480
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ctccgggagg gacagatggc caatctctcc ccttccaaag caggccctgn tccccgggca 180
gcctnncgcc gaggggccca ncccccaacc cacangcagg gagg                               224
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aagcaagaga tggctagtgc ttcacccagc caaagangtc gaagtgggtc tggaaacttt 180
ggtggtggtc gtggaagtgg tttaggtggg aatgacaact tcggtcgtgg aggaaacttc 240
agtgtgctgt gtggtcttgg tggcagccgt ggtggtggtg gatatggtgg cagtggggat 300
ggctataatg gatttggtaa tgatggaagc aattttggga agtgggtgga gctacaatga 360
ttttggggaa ttacaacaat cagtcttcaa attttgggac catgaaggga agaaattttg 420
gaagcagaac tctggcccta tggcgggtgga agccaatact ttgcaaaacc ncgaaaccag 480
gtggctatgg cggtccongca catcagtagc tatgcantgg canaaaattt aattaaggaa 540
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gccctggcag gtctccctgc agtacagctc caatggccag tggtagccaca nctgctggagg 180
gtccctggat agccaacagc tgggtcctna cggctgcca ctgcatcagt tcctccggga 240
tctaccgcgt ggatgctggg ncagcatgaa cctcttacgt tggcagagtt ccggttcggt 300
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taatatatta ccttgagttg ttccaaagggt cttatgttta ttggttgaa ttttccaata 180
gcaatgagga gtcaaggaag agtttctac tcaccggcag catctggaat agcagaccaa 240
ctttcctcat gctggggagc aaatcangtg ttgcagctaa ggggccatgc aagaagagct 300
gcaatggcca ttcccttcac ctggctacct cctctactct acagggcacc gagcccaatg 360
gagaagggtgn gagtggagaa gcagngatgt gatgaattac tttgcatggg agagaaatcc 420
ctccaccatc tcaagccccg gccactgtgc gagcctgtcg agaagcacag catttcttna 480
ggtggaaaga ttataactgt aatgtgaggg taccctatgt ctgcaagntc actgactagt 540
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gaccccttct tggaatacaa caactacggc tgctactgtg gcttgggggg ctcaagcacc 180
cccgtggatg aactggacaa gtgctgccag acacatgaca actgctatga ccaggccaag 240
aanctggaca gctgtnaatt tctgctggac aaccctgaca cccacaccta ttcatactcg 300
tgctctggct ccgcaatcac ctgttaccac caaaaacaaa natnttaagc ctcccntttt 360
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cgtgttagcc tcctctgcgc gctccngcag gcggccgtgg gagccgctng nggcagggac 180
ggcgcgaggc tgctgctgct gnncccggcc cgc 213

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 ggcattggacg ataccctggt ccagttgaag ttcacggcgn aganactggt agaaagtgg 180
 ccaagaaggc ggtgtaagga ctccaaggcg ganaggacca aagtgaagaa ggccttntg 240
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 gctcatcccg gtggccgccg cgcaggagcc tcccgagct gcttgttctc agaacacaaa 180
 caaacctgt gaagagtgcc tgaagaacgt ctctgtctt tgggtgcaaca ctaacaaggc 240
 ttgtctggac taccagttta caagcgtctt gccaccggct tccctttgta aattgagctc 300
 tgcacgctgg ggagtttgtg ggtgaacttt gaggcgctga tcatcaccat gtengtagtc 360
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gng 183

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ataattttta attatattga cattatcatc ttttatttta ctccataaat gattatgtga 180
gggaatttca taacatggga ccaccaccac cttggcaagg aatgccccct taccaggaa 240
tggaacaacc tccacacat ccttactatc agcacatgc tccacctcct caagctcatc 300
ccccttactc nggacatcat ccagtaccac ntgaagcaag atncagagat aaacgaattt 360
cctgattatg atatgaaggg tggatgattt ccttcntcnc acacaaactg ttgtcagtg 420
ccggaaaatt aaaccctga aaanaaacg ggacaan 457

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<400> 420
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gtgatgatca gctccctggg agacgtcaag ggcaatggca aagggggttt tgtgctgctg 120
gatggggaga cggttcgaggt gaaggggaca tgggagagac ctgggggtgc tgcaccgttg 180
ggctatgact tctggtacca gcctcgacac aatgtcatga tcagcactga gtgggcagct 240
cccaatntnt tacgagatgg cttcaacccc gctgatgtgg aggctggtga gaatccccc 300
atgtgncagc aggagccttn gggcnctacat ncccttgntt ttntggttcc aaatctttcc 360
acccccacaa tttgcnctnnn nattgggccc agaattctaa agnggggntg gccntaggat 420
tntaccggat ggttcagatt nnttcaaggg gnattnccgg ann catttna atnaaatttg 480
ttaacctnnn atccccan 498

<210> 421
<211> 452
<212> DNA
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<223> n equals a,t,g, or c

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<222> (43)
<223> n equals a,t,g, or c

<220>
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<222> (55)
<223> n equals a,t,g, or c

<400> 421
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cgggtcgacc cacgcgtccg gcacggctcc gactactcca aggattacct cacagacctc 120
atcaccaatg acagcgtgac ttcttccgca cgtccaagaa gatgtaccgg cacaggccag 180
tcctcatggt catcagccat gcagcccccc acggccctga ggattcagcc ccacaatatt 240
cacgcctctt cccaaacgca tctcagcaca tcacgccgag ctacaactac gcgccaacc 300
cggacaaaca ctggatcatg cgctacacgg ggcccatgaa gcccatccac atggaattca 360
ccaacatgct ccagcggaag gcttgcagac cctcatgtcg gtggacgact ccatggagac 420
gatttacaac atgctggttg agacgggcga gt 452

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<220>
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<400> 422
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ctgcgggagg acttcagtct gagtagcagt gctctcattg gcctgctggt catcgcagtg 120
gccattgcc a cggtcacgt catcagcctg gtgatgctga ggaaagangc agtatggcac 180
catcagccac gggatcgtgg aggtttgatc caatgctcac cccagaaaaa cgtccctgaa 240
caagatgcag aacctgcta tganaacc ca ctaccaatac tggacagatc aattagggtg 300
caggacgcgc acctgcgagg atcagtngcc gaaatccaca tccgatcnat gcaacacacc 360
gtgcag 366

<210> 423
<211> 81
<212> DNA
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<223> n equals a,t,g, or c

<220>
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<400> 423
gattctntcaa cggtcaccaa gaaaagaaca anttccttgc tncacaagga ccaaaagaag 60

aaacggtgan tgatttctgg c

81

<210> 424

<211> 383

<212> DNA

<213> Homo sapiens

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<222> (7)

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<221> misc feature

<222> (315)

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<222> (344)
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<220>
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<222> (359)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (383)
<223> n equals a,t,g, or c

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caccctctct agtccatgcc aggctgcctt ctgcttgcca tggctcacct ctccaatctc 120
ccctaaaccc acccctacca nggtgacaga actgggttcag cagctgacag gccaggcacc 180
tgctcctggg gcagcgggtg ttggtgctag agctgagctg tgaagggtgac gacgaggaca 240
ctgccttccc aactctgcac tatgagctgt gacaangcag ccaacctgtc anctagctca 300
atggagcccc ggaatnccaag ccctgcattg taagcccaca gtangcatca ataaatgcnt 360
gttaaaggaa aaaaaaaaaa aan 383

<210> 425
<211> 105
<212> DNA
<213> Homo sapiens

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<222> (34)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (45)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (74)
<223> n equals a,t,g, or c

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<223> n equals a,t,g, or c

<220>

<221> misc feature
<222> (82)
<223> n equals a,t,g, or c

<400> 425
ggctcctgctt ctccgcacgc caccttaggc ccgnagccgt gccgngtgct cttcagcatg 60
tccttcaccc cgnggncga gngattccga cttcccatc caciaa 105

<210> 426
<211> 237
<212> DNA
<213> Homo sapiens

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<223> n equals a,t,g, or c

<220>
<221> misc feature
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<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (56)
<223> n equals a,t,g, or c

<220>
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<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (114)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (198)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (230)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (236)

<223> n equals a,t,g, or c

<400> 426

nagcccgana tggcgagtgt agtgctgccg agcggatccc agtgtgcggc ggcacngcgg 60
cggcggcgct cncgggctcc ggctccgget tctgtgttg ctcttctccg ccgnggcact 120
gaatccccac aggtaatggg tcagaatctg ttacgaaaa gacgtgacag taatcgaggg 180
agaggttgcg aaccattnag ttgccaagta aatgaagagt gacgactctn taattna 237

<210> 427

<211> 407

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (22)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (28)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (65)

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<220>

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<220>

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<220>

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<222> (164)

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<220>

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<222> (255)

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<220>

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<222> (401)

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<400> 427

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ttttnatggt ctgagcccc ctcctgttcc catctccact gcccctcggc cctgtttgtg 120
ccctgcntct naaaggnggg ggctcagatg gtgcggcctg agtntgcggc cggcggcatt 180
tgggatacac ccgtagggac ggggtgtntc ccaggcctaa ttccatcttt ccaccatgac 240
agaaatgccc ttttnaaggc tggcctcctt ggcgcctgtt cccacaggcc cccgcagcgt 300
gagccacgat gcttccccan accccaccca ttcccgnaac acntacttac tgtnttggtg 360
gcccagccag agtgaggaag gagtttggtc cacatggaga nggcggt 407
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<210> 428

<211> 235

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

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<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (34)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (46)
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<220>
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<222> (63)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (110)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (116)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (119)
<223> n equals a,t,g, or c

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<221> misc feature
<222> (121)
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<220>
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<222> (146)
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<220>
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<220>
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<222> (197)
<223> n equals a,t,g, or c

<220>

<221> misc feature
<222> (199)
<223> n equals a,t,g, or c

<220>
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<222> (211)
<223> n equals a,t,g, or c

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<221> misc feature
<222> (212)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (227)
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<400> 428
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ctnaagaacc agattcaaga acgccaggaa agcatgtgca gatgcaactn tctctnaant 120
ncacaaacaa catcgaccca gtgggnaaga atccaaatga gacacaagga ggtcactgng 180
gggggcacct gggccangna tctgacggcc nngcactggg ggcacanact ccagg 235

<210> 429
<211> 164
<212> DNA
<213> Homo sapiens

<220>
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<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (5)
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<220>
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<220>
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<222> (38)
<223> n equals a,t,g, or c

<220>

<221> misc feature
<222> (98)
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<222> (117)
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<220>
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<222> (139)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (141)
<223> n equals a,t,g, or c

<220>
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<222> (162)
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<400> 429
ctcnnngaatt ttccagatgc agagcagcgg ttcgnngncc caggcgcggt ctgggcgact 60
gtgcgtggcg ctggaggcgc tggcggccgt tggccgcngg gagggcccaa catctgnacc 120
acgcgaggtg tgagctccng ncagcagagc ctggtctgag ancc 164

<210> 430
<211> 515
<212> DNA
<213> Homo sapiens

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<222> (412)
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<220>
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<222> (451)
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<220>
<221> misc feature
<222> (474)
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<220>
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<222> (485)

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<220>

<221> misc feature

<222> (504)

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<220>

<221> misc feature

<222> (513)

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<400> 430

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gtccgtgttg ttgctttccc accctgcagc gcactggact gaagagcttc cctcttccta 120
ctgcagcatg aactgcaagc tcccctcagc ccatcttget ccctcttcag cccgctgagg 180
agctttcttg ggctgcccc atctctccca acaagggtga catattctgc gtagatgcta 240
gaccaaccag cttcccaggg ttcgtcgctg tgaggcgtaa gggacatgaa ttctagggtc 300
tcctttctcc ttatttatte ttgtggctac atcatccctg gctgtggata agtgcttttg 360
tgtagcaaat gtcctctcct taaggggata gggctccctg agtttgggag tngtgaagta 420
ctacttaact gctgtcctgc ttggctgtcg ntatcggttt cttggtgatg ttgngctaac 480
aattnagaaa gtaccacggg tttnaattct tgnngg 515
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<210> 431

<211> 310

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (133)

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<220>

<221> misc feature

<222> (199)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (205)

<223> n equals a,t,g, or c

<220>

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<222> (208)

<223> n equals a,t,g, or c

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<222> (230)

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<222> (288)

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<222> (297)

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<220>

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<222> (300)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (302)

<223> n equals a,t,g, or c

<400> 431

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tgtctttcct gttgtggggc ctcagccagt accatgatct gagaccgaac ggcgtgtttt 120
ttctctaact tgnaaaaata ggtcacgggt ctagatcaca ttctcgatcc agaggaaggc 180
gatactctcg ctcacgcanc aggancangg ggacgaagggt caaagggtcan catcttcttc 240
gacggatcaa gatctatctc ccttcgtaaa tccaagatca actttcantc aagagtntan 300
gnttggtttt                                     310
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<210> 432

<211> 205

<212> DNA

<213> Homo sapiens

<220>

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<220>

<221> misc feature

<222> (198)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (199)

<223> n equals a,t,g, or c

<220>
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<222> (200)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (204)
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<400> 432
cctccctgggt tccctgccca caggccaggt gggaatccct gggctcagcc tactcaggtt 60
ctcctctggg ctcaaagcag ggaggcctct ctcttcctga atccgatgga aggggtgggag 120
gcctagggca ccttccggta ccttttccaa agatgccttc ntccgtccct gcatgacctg 180
gggtgagtcc ttctcgnnn tgtnc 205

<210> 433
<211> 424
<212> DNA
<213> Homo sapiens

<220>
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<222> (298)
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<220>
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<222> (318)
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<220>
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<222> (321)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (333)
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<220>
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<222> (363)
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<220>

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<222> (406)

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<220>

<221> misc feature

<222> (414)

<223> n equals a,t,g, or c

<400> 433

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gcttgacttt ccttttttga caataaaaga gtcaagatag caccgaggcc aggagaaagg 120
gaacgtgtaa gtttttatat atacagtttc caagccaact tcggggaagc cttaaccttt 180
ttacgggggtg ggggtgggga ggtaaaaagt tgtgatctct gagaaaataa ccgccactac 240
tctggaagtg ttcatcagca gttatacaaa accgtgattt tggctgctcc ctaacaantc 300
gtgattgcat gattcgantg ncagtctgta gangaattgg gcttgggtgt acgtgtgttt 360
ganaactggc aggtgggaaa agcagaacat gtgtnaaaac cagtgntaag cttngtggtt 420
ggggg                                           424
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<210> 434

<211> 415

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (354)

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<220>

<221> misc feature

<222> (375)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (378)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (385)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (391)

<223> n equals a,t,g, or c

<400> 434

gcgaaaaatc agttggcaat atacagtgtg ggaactgtac tgtgatcatt ggctaaccac 60
gatgggtgac agtttatgat ttcaaagact caaaggcggc ttgagtccta caatgtccta 120
ctcataaaaa tggaaagcat ggcagcctca gggtgttaca gagtactcta ctccaaagta 180
aaagttattc tctgagaaag tgcttactgc cttttctgtt ctctagtttg cttgtttaaa 240
cattttactcc acaaaattgc tcaaacttac ccattcttga atatctagcc tctgggatga 300
gacagatgat ctttctccgt ttctactttt tatagaatac agctacctac ccangcaata 360
tgaagatttt atttntanaa cctgncattt nccttaatgc atttgctatg acttt 415

<210> 435

<211> 612

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (442)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (477)

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<220>

<221> misc feature

<222> (489)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (492)

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<220>

<221> misc feature

<222> (523)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (591)

<223> n equals a,t,g, or c

<400> 435

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atgagagagag catgggggtg agcacttgaa acactgcctt ggggccttgg gttaggggag 120
cctttgtctt tagtgcagga cacacatatg cttacaccta ctttatcac cattcgttca 180
tgaatcatgc ctagctccat ccttgccctg ggacctacta ggccttcac caactgggaa 240
atggggagaa gcaaaagctg cctcatgctc ttcagggtca gttcctatct ggagttgacc 300
aggcctaccc cagttgccat tcctgaaaaa tctcagctgc caggctgcct ttaggggtccc 360
tgtagaccac ggagagttga gaggggtgggg gacacagaga gaatagagag gatgtgggaa 420

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ctggcagagg gccggagcgc angagttcaa gtggaggaat gctggctttg aaccctntac 480
actgctggnt gnatgacctt ggacaagcac ttcacctttt tgnggcttaa catcctcatc 540
tataaatggg gatctctgaa ccttctacct actacttaca ggctgtgtga ngaccaggag 600
tttggatttg ga 612
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<210> 436

<211> 520

<212> DNA

<213> Homo sapiens

<220>

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<222> (148)

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<220>

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<222> (156)

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<220>

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<222> (162)

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<220>

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<222> (167)

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<220>

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<222> (173)

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<220>

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<222> (182)

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<222> (185)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (227)

<223> n equals a,t,g, or c

<220>

<221> misc feature
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atgggaaaca ttagggctgg gttcatgnaa aggggnccag cnttgtnccg acngagggtta 180
anccntggga aggttatact ttggaggagg acctaaagttg ctggctngcc tgatnttcaa 240
aacccttgcc cttgcgngna ccancnaga gactcttaat canggacaaa gnctngctgn 300
ctantcaccg attttngatt ctnaaacaaa tngtgcacaa agtaagggat tctgangggg 360
ntatcncaga caaaactgng ctagacatga gggctctatgg ctttaagagca ncagtgtctg 420
gcctggagca acaaattgct ttgatgtgca aaccctttaa caacagttta ttcagaagac 480
actttttccn agccaaaang tcctggatgc aanctgncna 520
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<211> 472

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<213> Homo sapiens

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tcccatgggg ccacctggtc cttcaggnc aagaggtcct caaggtccca atggagctga 180
tggaaccacaa ggacccccag ggtctgtttg gttcagttgg tgggtgttga gaaaaggggtg 240
aacctggagt aagcagggaa cccagggcct cctggggtaa gcaggtgtta ggcgggtcccc 300
aaagtngnna agaggtngag aaaggnggaa ngntgntttc aacctngngc ttnttgggna 360
cctcncagtn gnccangggg nccaccaggt nttgttttgg ccctaagggn naacccgggt 420
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gatcacgggt tnacttgngg accaggcata gttcaaacaa tagatgaccn acattgtnc 180
ttt 183

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<211> 541
<212> DNA
<213> Homo sapiens

<400> 439
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aagcataata tagcaaggac taacccttat accttctgca taatgaatta actagaaata 180
actttgcaag gagagccaaa gctaagaccc ccgaaaccag acgagctacc taagaacagc 240
taaaagagca caccctgtcta tgtagcaaaa tagtggaag atttataggt agaggcgaca 300
aacctaccga gcctgggtgat agctgggtgt ccaagataga atcttagtgc aacttttaat 360
ttgcccacag aaccctctaa atccccttgt aaatttaact gttagtccaa agaggaacag 420
ctctttggac actagggaaa aaaccttgta gagagagtaa aaaatttaac acccatagta 480
gggcctaaaa gcagccacca attaagaagc gttcaagctt caacaccac tacctaaaaa 540
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<400> 440

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cctcaattgg ctggagggca gatctcgcga gtagggcaac gcggtaaaaa tattgcttcg 180
gtgggtgacg cggtacagct gcccaagggc gttcgtaacg ggaatgccga ancgtgggaa 240
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tatgcaaaaac atcaaagtga attttccatg aatgttttta atattctcat ctcaacattg 120
tgatatatgc tactaaaaac cttttcatat acatcttacc tcatttcaag tgaattattt 180
taatcttkkt ctctctktcc aaaaawtttag gaatgttttag tgtaattgga wttcgctatc 240
agttcccawc cttaagtttt gatattcaat atctgatagr wacaytgcac cyttgggtcat 300
ctaagnwttg kttacaantg tgccaaatta tttaggagcw agactttawa aggcwtnaaa 360
aaaac 365
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<212> DNA
<213> Homo sapiens

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ttcatgtctg tcttcctggc tcaggagaaa gaagaggctg ttgaggggcc gactccctac 180
ttggacttct ggcacagaag gggtgagtg actccttgag tagcagtggc tcttcctaga 240
gtagccatgc cgaggccggg gccccaccc ctcctccagg gcaaccctt ggtcctacag 300
caagaagcca gaactgttgg gaatgaatcg cagccctcct tggagaggca gcctgtttat 360
tgattacaga ggtaagttta caaattgatt aggctataat taantgcaca tttccnccac 420
aggccnggca tgaaggccca gtgggttttc aaaggccaca ttncaccccc tntctgcctt 480
aggncacagg cacctgggaa gngngacgta gccaggttt aagtcacagg gcatt 535

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<400> 443

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ctgggggaac taagccggag gcagtgggtg tggcggcggc gcaaggggtga gggcgggccc 120
aaaaccccag gtaggtagag caagaagatg gtgtttctgc ccctcaaatg gtcccttgcn 180
accatgtcat ttctactttc ctcaactgtt gctctcttaa ctgtgtccac tccttcatgg 240
tgtcaganca ctgaagcatc tccaaaacnt antgatggga caccatttcc ttggaataaa 300
atacgacttc ctgaatacgt catcccagtg caatataaat ctcttgatcn atgcaaacct 360
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<211> 313

<212> DNA

<213> Homo sapiens

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<222> (275)

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<222> (276)

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<222> (310)

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<400> 444

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attaaatttg gatgtagtga natctctctc tgtaaanaaa cgcttatttt ctcccctaaa 120

```
tggaatgatg aacgcttctt ctctcctctg ccatatgcc ctttgaaaag ttacatgtct 180
ctctattact tggcaataat gggaattttt atttctacag ttgtattgtt ttggctctgt 240
ccataccctg taaacatttc cattgttcta caaannctgt gttctctttt ctgtcaaggg 300
tcangtgtn naa 313
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ttnttttttn tn 72
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<212> DNA
<213> Homo sapiens

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gttacaagca ttgaacttct ttagtattat attaatataa aaacattttt gtatgtttta 120
ttgtaatcat aaatactgct gtataaggta ataaaactct gcacctaate ccataaactt 180
ccagtatcat ttccaatta attatcaagt ctgttttggg aaacactttg aggacattta 240
tgatgcagca gatgttgact aaaggcttgg ttggtagata ttcaggaaat gttcactgaa 300
taataagta aatacattat tgaaaagcaa atctgtataa atgtgaaatt tttatttgta 360
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ttagtaataa aacattagta gtttaaaca aaaaaaaaaa aaaaaa

406

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<211> 238

<212> DNA

<213> Homo sapiens

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atgggtcctcc atactcctca gacaacagcc ttncgaaagc aacctgtccc tacctgcaga 120
tgattancca tctatgaacc ggctgggtan gcaacaagtg ccatctttca tggagctgag 180

ccttaaagat cctncagtc taaagctgnc gggaaganct taggtgggag cagcgntg 238

<210> 448

<211> 536

<212> DNA

<213> Homo sapiens

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<222> (305)

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<222> (405)

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<220>
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ggaaattgtg ggcataaagc ttaaaatccg tgggtttatc caaattgtgg aaaccataa 180
gttaagttaa taaatgcctg ccttttggtta ataataaatt ggtaaaagtt gcctaaccaa 240
aattaagttc ctccaagcca cctggaaaaa aagggttaatt ggantacccc tcctttaaaa 300
aaggnaaagg cccaaccttt ttnggaaggt taagggtggn ttttngccta aaggcccctc 360
cagggaaaaa aatanncccg gtcccgggaa gaaanttttg ggttnaaaaa cccgggtttt 420
nggaataaaa aggggaagng nttaacctt tccccgggn tttttccctt tgggggtttc 480
caaaaaaat tttttcccaa agggtttncc caaaaaat ttttaaagg tttttt 536

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<222> (79)

<223> n equals a,t,g, or c

<400> 449

ttttttttcc aaaaatatgt ccatattttna atcatgccta aagtcccacc tggganggtt 60
aaggcccgna ngcctgganc ttgg 84

<210> 450

<211> 423

<212> DNA

<213> Homo sapiens

<400> 450

tgtctgtgcc ctgccccag aggtggagcc tacagaggca ggcaggcctc cttgagctgt 60
ggtgggctcc acccagttcg agcttcctgg ctgctttgtt tacctaagca agcctgggca 120
atgggtgggcy cccctcccac agcctcgctg ccgccttgca gtttgatctc agactgctgt 180
gctagcaatc agcgagactc catgggcgta gggccctccg agccagggtc aggatataat 240
ctcctgggtgc accattcttt aagcccgtcg gaaaagcaca gtattagggg gggagtgacc 300
caattttcca ggtgccgtct gtcacccctt tctttgacta ggaaagggac ctccctgacc 360
ccttgcgctt cccgagtga gcaatgcctc aacctgcttc ggctcacgca cggtgggctg 420
cac 423

<210> 451

<211> 544

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (380)

<223> n equals a,t,g, or c

<220>

<221> misc feature
<222> (412)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (418)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (441)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (483)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (485)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (493)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (523)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (542)
<223> n equals a,t,g, or c

<400> 451
gaatgctata ggaattatgg aggaataatt agctatttat tttcttggtt agggaagaga 60
tattattagt tgtagaagta attactaact tctacatttt ttattgtgga aatcaaaaat 120
atatatatga aaataaaatg ttataattga cttcagtgct ccataaacca gcttcaacaa 180
ttaccaaatt gtgaccaatc ttacacaca tgcacagggt tccctcaata tctgtgggca 240
ttggttctag gaccacttat ggataccaac atctatggat gctcaagtcc ctgatataaa 300
atggtggact atttgcata gacctgtgta catcccgtat tatttaaatac atccctagat 360
cacttataat acgtaatacn atgtaaatgc catgtaaata ctgttatact gnattaangg 420
aataacaacc aggaaaaatg nacatgggtca agtaccagac cccaattttt ttgggggggg 480
gggnaatttt canttcccag ggcaatttga accccatggg ccntaggaag ctttaccggg 540
cntg 544

<210> 452
<211> 432
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (267)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (402)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (413)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (417)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (421)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (432)
<223> n equals a,t,g, or c

<400> 452
ggataaacca tctccccact tcacatagaa gcaaagtgag gcacaagggtg ggatagtgat 60
gtgcccaggg tcacctggct tctagtgaat gcaggagctg ggattccagc ccagcctgct 120
gactcactgg gctgcacaga gctccgctag ctctgctgac agctgccact cattggcagg 180
gggtgggcct cttgtcttcc acacaagggt gaagtgggtcc tgggtgctcct tgtctgggggt 240
actgggggtgg ggcatacctct gccatanaca agagagactt cacctacctg tgatctcccc 300
agcaccttca gtgccccgtg ggctgcctgg cccacagccg tgagcaagta ctgcctggct 360
gggaagccaa taccctgatg gaacttcggc aatgccctgg anaacatcct tantggnttt 420
ngccaacatt gn 432

<210> 453
<211> 90
<212> DNA
<213> Homo sapiens

<220>

<221> misc feature
<222> (35)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (49)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (76)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (81)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (83)
<223> n equals a,t,g, or c

<400> 453
gggtggcttg caggggaagt gcttccgcct gtctnccgcg ctgggcctnt cagcacgagc 60
ttgaggaaaa ccacantgcc ntnagatcca 90

<210> 454
<211> 500
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (184)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (279)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (349)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (372)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (441)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (457)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (458)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (465)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (466)

<223> n equals a,t,g, or c

<400> 454

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ggtaagtacg acagaagggt acggctgcgt agaagacgac agaaggggtc tgctttccaa 60
ctgcctgact gcttggtcgt ctcaactggg tgagctccag catccccctt gctcgaaatg 120
gacccaact gctcttgccg cactgggtgg tcctgcacgt gcgccggctc ctgcaagtgc 180
aaanagtgca aatgcacctc ctgcaagaag agctgctggt cctgctgccc cgtgggctgt 240
gccaaagtgt cccagggtgt cgtctgcaaa ggggcacng aaaaatgcag ctgctgtgcc 300
tgatgtggga acagctcttc tcccagatgt taatagaaca acctgcacna cctggatttt 360
tttaaaaata cnacactgaa ccattgctgg catttccttt ttatactaaa tatgtgactg 420
aacaataaaa acattttgac ntttaaaaaa aaaaaannaa atttnnaaaa aaaaaaaaaa 480
cccggggccc ccaaaaaaca                                     500
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<210> 455

<211> 635

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (5)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (178)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (380)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (392)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (438)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (517)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (518)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (555)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (557)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (569)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (618)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (631)

<223> n equals a,t,g, or c

<400> 455
gggcngatta ttttatatta gtattaaaaa tcaaacccta tgtttctttc agatgaatct 60
tccaaagtgg attatattaa gcaggattta gatttaggaa aacctttcca tttcttaaag 120
tattatcaag tgtcaagatc agcaagtgtc cttaaagtcaa acagggtttt tttgttgntg 180
tttttgcttt gtttcctttt ttagaaagtt ctagaaaata ggaaaacgaa aaatttcatt 240
gagatgagta gtgcatttaa ttatttttta aaaaactttt taagtacttg aattttatat 300
caggaaaaca aagttgttga gccttgcttc ttccgttttg ccctttgtct cgctccttat 360
tctttttttg gggggagggg tatttgcttt tntatcttcc tggcataatt tccattttat 420
tcttctgagt gtctatgnta acttccctct atcccgttta taaaaaaatt ctccaacaaa 480
aatacttggg gacttgatgg tttatcactt ctctaannaa ggtgaaatac cctaattggaa 540
gctactgggt ttaangnaaa gggtaaacnt gaaaagaaat cttaatcacg gggccaaatt 600
aattttctaa ccccatgngt aaaaaatatt naaat 635

<210> 456
<211> 317
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (86)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (203)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (210)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (245)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (267)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (303)
<223> n equals a,t,g, or c

<220>
<221> misc feature

<222> (305)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (316)

<223> n equals a,t,g, or c

<400> 456

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gcggacgcgt gggccgcctt ggaccgcagt tgccggccag gaatcccagt gtcacggtgg 60
acacgcctcc ctgcgcccct tgccgnccac ctgctcacc agctcagggg ctttggaatt 120
ctgtggccac actgtgagga gatcggttct gggtcggagg ctacaggaag actcccactc 180
cctgaaatct ggagtgaaga acngccgcn tccagccacc attccaagga ggtgcatgag 240
aacanctctg tgataccatt taacttngtt gacattactt ttatttgaag gaacgtatat 300
tananccttac ttgcna 317
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<210> 457

<211> 322

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (276)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (297)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (316)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (317)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (319)

<223> n equals a,t,g, or c

<400> 457

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gtgcatttat ttgaaatgtc tgtaagtctc tttccatcta cagagttag cacatttgaa 60
cggtgtcggg tgaaatccc aggtgtcatt tgacatggtt ctctgaactt atctttccta 120
taaaatggta gttagatctg gaggtctgat tttgtggcaa aaatacttcc taggtgggtgc 180
tggggtacttc ttgtgcatc ctgtcaggag gcagataatg ctgggtgcctc tctattggta 240
```

atgttaagac tgctgggtgg gtttggagtt cttggnntta atcattcatt acaaagntca 300
acattttacc tgacgnntna ag 322

<210> 458
<211> 161
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (33)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (93)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (99)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (118)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (142)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (161)
<223> n equals a,t,g, or c

<400> 458
gagaaaacta ggcaatgtac tcttccgatg ttngtgtcac acaacactga tgtgactttt 60
atatgcttta tctcacatct gttttctaag agntttggng ggcggggctg acaccacntg 120
cagtatctca agatattcag gnggccagaa gagcttgtca n 161

<210> 459
<211> 485
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (215)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (385)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (424)

<223> n equals a,t,g, or c

<220>

<221> misc feature

$\langle 222 \rangle$ (446)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (450)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (457)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (477)

<223> n equals a,t,g, or c

<400> 459

ggacacgagag	cccggaaaagg	gggcgtcccc	atgagcgggc	ccggagccgg	gagcgggacc	60
tcagccggga	ccggagccgt	ggccggagcc	tggagcgggg	cctggaccaa	gaccatgcgc	120
gcacccgaga	ccgcagccgt	ggccggagcc	tggagcgggg	cctggaccac	gactttgggc	180
catcccggga	ccgggaccgt	gaccgcagcc	gcggncggga	gcattgacca	ggactacgag	240
cgagcctatc	accgggcctt	acgacccaga	ctacgagcgg	gcttacagcc	cgggagttac	300
aggcgcgggg	cccgccacga	tgcccgcctc	tcggggaacc	ccgaaagccg	cagccgcgaa	360
gcacccgcat	tcaaggagcc	ccagnccga	gcttaagggg	cggcggggcc	catcgggttc	420
ttcntgatga	aaagcagagg	aacganattn	tgttttncgg	tttggattaa	attttcntaa	480
ggatt						485

<210> 460

<211> 65

<212> PRT

<213> Homo sapiens

<400> 460

Ala Ile Asn Trp Asn Ser Thr Ser Leu Glu Phe Ser Lys Gly Val Trp
1 5 10 15

Glu Gly Ser Tyr Thr Ser Ser Met Lys Gly Ser Leu Ser Val Thr Lys
 20 25 30

Leu Gln Ile His Lys Pro Phe Val Ser Pro Asn Leu Leu Gly Met Asn
 35 40 45

Pro Thr Tyr Ile Phe Ile Cys Val Gln Ala Thr Trp Phe Ser Leu Cys
 50 55 60

Tyr
 65

<210> 461

<211> 344

<212> PRT

<213> Homo sapiens

<400> 461

Ile Arg His Glu Arg Lys Pro Ser Arg Ala Pro Leu Ala Met Glu Thr
 1 5 10 15

Val Ile Ser Ser Asp Ser Ser Pro Ala Val Glu Asn Glu His Pro Gln
 20 25 30

Glu Thr Pro Glu Ser Asn Asn Ser Val Tyr Thr Ser Phe Met Lys Ser
 35 40 45

His Arg Cys Tyr Asp Leu Ile Pro Thr Ser Ser Lys Leu Val Val Phe
 50 55 60

Asp Thr Ser Leu Gln Val Lys Lys Ala Phe Phe Ala Leu Val Thr Asn
 65 70 75 80

Gly Val Arg Ala Ala Pro Leu Trp Asp Ser Lys Lys Gln Ser Phe Val
 85 90 95

Gly Met Leu Thr Ile Thr Asp Phe Ile Asn Ile Leu His Arg Tyr Tyr
 100 105 110

Lys Ser Ala Leu Val Gln Ile Tyr Glu Leu Glu Glu His Lys Ile Glu
 115 120 125

Thr Trp Arg Glu Val Tyr Leu Gln Asp Ser Phe Lys Pro Leu Val Cys
 130 135 140

Ile Ser Pro Asn Ala Ser Leu Phe Asp Ala Val Ser Ser Leu Ile Arg
 145 150 155 160

405

```

Asn Lys Ile His Arg Leu Pro Val Ile Asp Pro Glu Ser Gly Asn Thr
      165                      170                      175

Leu Tyr Ile Leu Thr His Lys Arg Ile Leu Lys Phe Leu Lys Leu Phe
      180                      185                      190

Ile Thr Glu Phe Pro Lys Pro Glu Phe Met Ser Lys Ser Leu Glu Glu
      195                      200                      205

Leu Gln Ile Gly Thr Tyr Ala Asn Ile Ala Met Val Arg Thr Thr Thr
      210                      215                      220

Pro Val Tyr Val Ala Leu Gly Ile Phe Val Gln His Arg Val Ser Ala
      225                      230                      235                      240

Leu Pro Val Val Asp Glu Lys Gly Arg Val Val Asp Ile Tyr Ser Lys
      245                      250                      255

Phe Asp Val Ile Asn Leu Ala Ala Glu Lys Thr Tyr Asn Asn Leu Asp
      260                      265                      270

Val Ser Val Thr Lys Ala Leu Gln His Arg Ser His Tyr Phe Glu Gly
      275                      280                      285

Val Leu Lys Cys Tyr Leu His Glu Thr Leu Glu Thr Ile Ile Asn Arg
      290                      295                      300

Leu Val Glu Ala Glu Val His Arg Leu Val Val Val Asp Glu Asn Asp
      305                      310                      315                      320

Val Val Lys Gly Ile Val Ser Leu Ser Asp Ile Leu Gln Ala Leu Val
      325                      330                      335

Leu Thr Gly Gly Glu Lys Lys Pro
      340

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<210> 462

<211> 85

<212> PRT

<213> Homo sapiens

<400> 462

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Ile Leu Ile Tyr Phe Tyr Phe Met Ala Leu Lys Tyr Asn Lys Ser Val
  1                      5                      10                      15

Asn Tyr Val Phe Tyr Ile Ser Ser Ser Leu Arg Leu Gly His Phe Ile
      20                      25                      30

Ser Val Asp Ile Ile Val Ser Ile Ile Leu Gln Asp Lys Lys His Leu

```

406

35 40 45
 Leu Thr Thr Cys Gly Leu Lys Tyr Arg Pro Thr Leu Cys Ser Asn Ile
 50 55 60
 Met Leu Ile Ile Phe Leu Ala Val Leu His Ser Gly Gly Pro Asn Trp
 65 70 75 80
 Ile Arg Leu Leu His
 85

<210> 463

<211> 53

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (45)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 463

Leu Ile Ser Cys Pro Met Glu Val Leu Ala Val Ser Ile Ser Leu Ile
 1 5 10 15

Phe Val Ser Pro Asn Met Leu Val Gln Ile Arg Val Ser His Ile Phe
 20 25 30

Leu Thr Ala Ser Asn Phe Tyr Leu Lys Trp Tyr Trp Xaa Leu Val Ser
 35 40 45

Val Gln Asn Ile Leu
 50

<210> 464

<211> 160

<212> PRT

<213> Homo sapiens

<400> 464

Gly Phe Thr Ala Ala Arg Arg Arg Gln Lys Gly Val Ser Gly Leu Leu
 1 5 10 15

Leu Cys Gln Ala Gly Gly Val Leu Val Ser Ser Phe Val Met Ala Ala
 20 25 30

Ala Val Ala Met Glu Thr Asp Asp Ala Gly Asn Arg Leu Arg Phe Gln

407

35	40	45
Leu Glu Leu Glu Phe Val Gln Cys Leu Ala Asn Pro Asn Tyr Leu Asn		
50	55	60
Phe Leu Ala Gln Arg Gly Tyr Phe Lys Asp Lys Ala Phe Val Asn Tyr		
65	70	75 80
Leu Lys Tyr Leu Leu Tyr Trp Lys Asp Pro Glu Tyr Ala Lys Tyr Leu		
85	90	95
Lys Tyr Pro Gln Cys Leu His Met Leu Glu Leu Leu Gln Tyr Glu His		
100	105	110
Phe Arg Lys Glu Leu Val Asn Ala Gln Cys Ala Lys Phe Ile Asp Glu		
115	120	125
Gln Gln Ile Leu His Trp Gln His Tyr Ser Arg Lys Arg Met Arg Leu		
130	135	140
Gln Gln Ala Leu Ala Glu Gln Gln Gln Gln Asn Asn Thr Ser Gly Lys		
145	150	155 160

<210> 465

<211> 42

<212> PRT

<213> Homo sapiens

<400> 465

Ser Pro Ser Phe Leu Cys Ile Lys Val Ile Ile Ser Glu Glu His Arg
1 5 10 15

Asn Phe Ser Leu Phe Arg Glu Gly Lys Leu Ile Glu Asn Leu Ala Cys
20 25 30

Ser Thr Asn Lys Tyr Ser Cys Cys Lys Tyr
35 40

<210> 466

<211> 54

<212> PRT

<213> Homo sapiens

<400> 466

408

Arg Lys His Leu Glu Lys Met Thr His Trp Phe His Arg Asn Pro Leu
 1 5 10 15
 Lys Ala Thr Ala Pro Val Ser Phe Asn Tyr Tyr Gly Val Val Thr Gly
 20 25 30
 Pro Ser Ala Ser Lys Ile Cys Asn Asp Leu Arg Ser Ser Arg Ala Arg
 35 40 45
 Leu Leu Glu Thr Val His
 50

<210> 467
 <211> 49
 <212> PRT
 <213> Homo sapiens

<400> 467
 Ala Asn Gly Gln Tyr Val Gln Leu Ala Cys Thr Ser Ser Thr Gly Leu
 1 5 10 15
 Val Val Trp Val Leu Leu Met Leu Gly Asn Ser Phe Cys His Asn His
 20 25 30
 Phe Thr Tyr Phe Phe Leu Tyr Cys Phe Ile Ile Ala Asn Ser Phe Ser
 35 40 45
 Leu

<210> 468
 <211> 126
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (1)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 468
 Xaa Gly Gly Gly Arg Cys Gln Val Pro Ala Ser His Arg Asn Gly Pro
 1 5 10 15
 Ala Gly Ala Gly Arg Leu Pro Thr Pro Pro Thr Lys Glu Gly Ala Pro
 20 25 30

Glu Ser Ala Cys Ala Ser Ile His Leu Ser Val Gln Ser Arg His Pro
 35 40 45
 Cys Leu Ser Lys Ala Leu Thr Lys Thr Pro Ala Pro Gly Trp Pro Cys
 50 55 60
 Ala Asp Leu Thr Gln Gly Met Phe Thr Trp Cys Ser Gly Arg Glu Gly
 65 70 75 80
 Lys Gly Pro Gly Arg Gly His Gly Arg Arg Val Ala Ala Thr Arg Arg
 85 90 95
 Arg Pro Gly Arg Pro Gly Thr Gln Ser Arg Met Thr Thr His Leu His
 100 105 110
 Ala Thr Ala Ser Pro Glu Cys Ile Trp Asn Gln Ser Leu Asn
 115 120 125

<210> 469

<211> 76

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (70)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 469

Asp Arg Val Asn Arg Gly Met Pro Asp Val His Gly Phe Trp Gln Ser
 1 5 10 15
 Arg Gly His Ile Ser Ile Ile Ala Met Leu Val Pro Pro Pro Ser Glu
 20 25 30
 His Ser Gly Glu Gly Cys Glu Gly Ser Cys Asp Leu Asp Leu Arg Ser
 35 40 45
 Pro Asp Arg Asn Leu Asp Ala Thr Gly Ser Arg Pro Gly Leu Arg Leu
 50 55 60
 Gly Leu Val Asp Gly Xaa Leu Thr Val Phe Ala Asp
 65 70 75

<210> 470

<211> 193

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (154)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (167)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 470

Gly	Pro	Gly	Leu	Gly	Gly	Trp	Ser	Ser	Ile	Ser	Ser	Pro	Arg	Gly	Cys
1				5					10					15	

Arg	Asp	Ser	Gly	Arg	Ser	Val	Ala	Ala	Ile	Thr	Asp	Phe	Leu	Trp	Asp
			20					25					30		

Lys	Arg	Thr	Gly	Leu	Ala	Ala	Arg	Thr	Met	Pro	His	Pro	Arg	Arg	Tyr
		35					40					45			

His	Ser	Ser	Xaa	Arg	Gly	Ser	Arg	Gly	Ser	Tyr	Arg	Glu	His	Tyr	Arg
	50					55					60				

Ser	Arg	Lys	His	Lys	Arg	Arg	Arg	Ser	Arg	Ser	Trp	Ser	Ser	Ser	Ser
65					70					75					80

Asp	Arg	Thr	Arg	Arg	Arg	Arg	Arg	Glu	Asp	Ser	Tyr	His	Val	Arg	Ser
			85						90					95	

Arg	Ser	Ser	Tyr	Asp	Asp	Arg	Ser	Ser	Asp	Arg	Arg	Val	Tyr	Asp	Arg
			100					105						110	

Arg	Tyr	Cys	Gly	Ser	Tyr	Arg	Arg	Asn	Asp	Tyr	Ser	Arg	Asp	Arg	Gly
		115					120					125			

Asp	Ala	Tyr	Tyr	Asp	Thr	Asp	Tyr	Arg	His	Ser	Tyr	Glu	Tyr	Gln	Arg
	130					135					140				

Glu	Asn	Ser	Ser	Tyr	Arg	Ser	Gln	Arg	Xaa	Ala	Gly	Glu	Ala	Gln	Thr
145					150					155					160

Ala	Glu	Glu	Ala	His	Gly	Xaa	Phe	Ser	Arg	Ser	Ser	Ser	Val	Ser	Ala
				165					170						175

411

Ser Pro Gly Pro Ser Ser Pro His Ser Ser Ala Gly Pro Leu Gly Leu
 180 185 190

Trp

<210> 471

<211> 111

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (105)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 471

Pro Ala Pro Gly Arg Gly Pro Pro Met Ala Gly Ala Ala Pro Thr Thr
 1 5 10 15

Ala Phe Gly Gln Ala Val Ile Gly Pro Pro Gly Ser Gly Lys Thr Thr
 20 25 30

Tyr Cys Leu Gly Met Ser Glu Phe Leu Arg Ala Leu Gly Arg Arg Val
 35 40 45

Ala Val Val Asn Leu Asp Pro Ala Asn Glu Gly Leu Pro Tyr Glu Cys
 50 55 60

Ala Val Asp Val Gly Glu Leu Val Gly Leu Gly Asp Val Met Asp Ala
 65 70 75 80

Leu Arg Leu Gly Pro Asn Gly Gly Leu Leu Tyr Phe Met Glu Tyr Leu
 85 90 95

Glu Ala Asn Leu Asp Trp Leu Arg Xaa Lys Leu Glu Pro Leu Arg
 100 105 110

<210> 472

<211> 65

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (63)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 472

Lys Glu Gly Glu Lys Ser Ala Thr Leu Val Leu Leu Phe Cys Val Tyr
 1 5 10 15

Asn Phe Leu Lys Lys Ile Cys Val Leu Leu Ile Thr Thr Leu Val
 20 25 30

Cys Pro Ser Ala Phe Phe Phe Phe Xaa Lys Thr Gly Ser His Ser Ile
 35 40 45

Gly Gln Ala Gly Val Gln Trp Cys Asn His Ser Ser Leu Gln Xaa Cys
 50 55 60

Pro
 65

<210> 473

<211> 283

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (182)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 473

Gly Arg Gly Gly Arg Gly Trp Trp Gly Phe Trp Thr Glu Pro Leu Arg
 1 5 10 15

Val Arg Ala Asp Pro Val Ser Gly Cys Gly Gly Lys Met Ala Glu Leu
 20 25 30

Arg Val Leu Val Ala Val Lys Arg Val Ile Asp Tyr Ala Val Lys Ile
 35 40 45

Arg Val Lys Pro Asp Arg Thr Gly Val Val Thr Asp Gly Val Lys His
 50 55 60

Ser Met Asn Pro Phe Cys Glu Ile Ala Val Glu Glu Ala Val Arg Leu
 65 70 75 80

Lys Glu Lys Lys Leu Val Lys Glu Val Ile Ala Val Ser Cys Gly Pro

413

85					90					95					
Ala	Gln	Cys	Gln	Glu	Thr	Ile	Arg	Thr	Ala	Leu	Ala	Met	Gly	Ala	Asp
			100					105					110		
Arg	Gly	Ile	His	Val	Glu	Val	Pro	Pro	Ala	Glu	Ala	Glu	Arg	Leu	Gly
		115					120					125			
Pro	Leu	Gln	Val	Ala	Arg	Val	Leu	Ala	Lys	Leu	Ala	Glu	Lys	Glu	Lys
		130				135					140				
Val	Asp	Leu	Val	Leu	Leu	Gly	Lys	Gln	Ala	Ile	Asp	Asp	Asp	Cys	Asn
145				150						155					160
Gln	Thr	Gly	Gln	Met	Thr	Ala	Gly	Phe	Leu	Asp	Trp	Pro	Gln	Gly	Thr
			165					170						175	
Phe	Ala	Ser	Gln	Val	Xaa	Leu	Glu	Gly	Asp	Lys	Leu	Lys	Val	Glu	Arg
		180						185					190		
Glu	Ile	Asp	Gly	Gly	Leu	Glu	Thr	Leu	Arg	Leu	Lys	Leu	Pro	Ala	Val
		195					200					205			
Val	Thr	Ala	Asp	Leu	Arg	Leu	Asn	Glu	Pro	Arg	Tyr	Ala	Thr	Leu	Pro
		210				215					220				
Asn	Ile	Met	Lys	Ala	Lys	Lys	Lys	Lys	Ile	Glu	Val	Ile	Lys	Pro	Gly
225				230						235					240
Asp	Leu	Gly	Val	Asp	Leu	Thr	Ser	Lys	Leu	Ser	Val	Ile	Ser	Val	Glu
			245						250					255	
Asp	Pro	Pro	Gln	Arg	Thr	Ala	Gly	Val	Lys	Val	Glu	Thr	Thr	Glu	Asp
			260					265						270	
Leu	Val	Ala	Lys	Leu	Lys	Glu	Ile	Gly	Arg	Ile					
		275					280								

<210> 474

<211> 521

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (54)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (199)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (272)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 474

Cys Leu Thr Lys Leu Leu Pro Cys Phe Leu Glu His Asn Met Lys Arg
 1 5 10 15

Asp Glu Asp Leu His Lys Ala Ala Lys Glu Met Pro Phe Gln Gly Ser
 20 25 30

Gly Lys Ser Ala Trp Cys Pro Val Glu Ile Ser Lys Thr Val Leu Trp
 35 40 45

Pro Glu Ser Ile Ser Xaa Val Arg Cys Val Glu Leu Phe Glu Ala Pro
 50 55 60

Val Glu Cys Glu Glu Glu Glu Glu Val Glu Glu Lys Gly Ser Phe
 65 70 75 80

Cys Ala Ser Pro Glu Ser Ser Arg Asp Asp Phe Gln Glu Gly Arg Glu
 85 90 95

Gly Ile Val Ala Arg Leu Thr Glu Ser Leu Phe Leu Asp Leu Leu Gly
 100 105 110

Glu Glu Asn Gly Gly Phe Cys Gln Gln Asp Met Gly Glu Ser Cys Leu
 115 120 125

Leu Pro Pro Ser Gly Ser Thr Ser Ala His Met Pro Trp Asp Glu Phe
 130 135 140

Pro Ser Ala Gly Pro Lys Glu Ala Pro Pro Trp Gly Lys Glu Gln Pro
 145 150 155 160

Leu His Leu Glu Pro Ser Pro Pro Ala Ser Pro Thr Gln Ser Pro Asp
 165 170 175

Asn Leu Thr Cys Thr Glu Thr Pro Leu Val Ile Ala Gly Asn Pro Ala
 180 185 190

Tyr Arg Ser Phe Ser Asn Xaa Leu Ser Gln Ser Pro Cys Pro Arg Glu
 195 200 205

Leu Gly Pro Asp Pro Leu Leu Ala Arg His Leu Glu Glu Val Glu Pro
 210 215 220

Glu Met Pro Cys Val Pro Gln Leu Ser Glu Pro Thr Thr Val Pro Gln
 225 230 235 240
 Pro Glu Pro Glu Thr Trp Glu Gln Ile Leu Arg Arg Asn Val Leu Gln
 245 250 255
 His Gly Ala Ala Ala Ala Pro Val Ser Ala Pro Thr Ser Gly Tyr Xaa
 260 265 270
 Glu Phe Val His Ala Val Glu Gln Gly Gly Thr Gln Ala Ser Ala Val
 275 280 285
 Val Gly Leu Gly Pro Pro Gly Glu Ala Gly Tyr Lys Ala Phe Ser Ser
 290 295 300
 Leu Leu Ala Ser Ser Ala Val Ser Pro Glu Lys Cys Gly Phe Gly Ala
 305 310 315 320
 Ser Ser Gly Glu Glu Gly Tyr Lys Pro Phe Gln Asp Leu Ile Pro Gly
 325 330 335
 Cys Pro Gly Asp Pro Ala Pro Val Pro Val Pro Leu Phe Thr Phe Gly
 340 345 350
 Leu Asp Arg Glu Pro Pro Arg Ser Pro Gln Ser Ser His Leu Pro Ser
 355 360 365
 Ser Ser Pro Glu His Leu Gly Leu Glu Pro Gly Glu Lys Val Glu Asp
 370 375 380
 Met Pro Lys Pro Pro Leu Pro Gln Glu Gln Ala Thr Asp Pro Leu Val
 385 390 395 400
 Asp Ser Leu Gly Ser Gly Ile Val Tyr Ser Ala Leu Thr Cys His Leu
 405 410 415
 Cys Gly His Leu Lys Gln Cys His Gly Gln Glu Asp Gly Gly Gln Thr
 420 425 430
 Pro Val Met Ala Ser Pro Cys Cys Gly Cys Cys Cys Gly Asp Arg Ser
 435 440 445
 Ser Pro Pro Thr Thr Pro Leu Arg Ala Pro Asp Pro Ser Pro Gly Gly
 450 455 460
 Val Pro Leu Glu Ala Ser Leu Cys Pro Ala Ser Leu Ala Pro Ser Gly
 465 470 475 480
 Ile Ser Glu Lys Ser Lys Ser Ser Ser Ser Phe His Pro Ala Pro Gly
 485 490 495

416

Asn Ala Gln Ser Ser Ser Gln Thr Pro Lys Ile Val Asn Phe Val Ser
 500 505 510

Val Gly Pro Thr Tyr Met Arg Val Ser
 515 520

<210> 475

<211> 245

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (163)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 475

Pro Val Ser Tyr His Pro Arg Met Cys Thr Gly Gly Cys Ala Arg Cys
 1 5 10 15

Leu Gly Gly Thr Leu Ile Pro Leu Ala Phe Phe Gly Phe Leu Ala Asn
 20 25 30

Ile Leu Leu Phe Phe Pro Gly Gly Lys Val Ile Asp Asp Asn Asp His
 35 40 45

Leu Ser Gln Glu Ile Trp Phe Phe Gly Gly Ile Leu Gly Ser Gly Val
 50 55 60

Leu Met Ile Phe Pro Ala Leu Val Phe Leu Gly Leu Lys Asn Asn Asp
 65 70 75 80

Cys Cys Gly Cys Cys Gly Asn Glu Gly Cys Gly Lys Arg Phe Ala Met
 85 90 95

Phe Thr Ser Thr Ile Phe Ala Val Val Gly Phe Leu Gly Ala Gly Tyr
 100 105 110

Ser Phe Ile Ile Ser Ala Ile Ser Ile Asn Lys Gly Pro Lys Cys Leu
 115 120 125

Met Ala Asn Ser Thr Trp Gly Tyr Pro Phe His Asp Gly Asp Tyr Leu
 130 135 140

Asn Asp Glu Ala Leu Trp Asn Lys Cys Arg Glu Pro Leu Asn Val Val
 145 150 155 160

Pro Trp Xaa Ser Asp Pro Leu Leu His Pro Ala Gly Arg Arg Arg Asn

417

165										170					175			
Pro	Asp	Gly	Ser	Leu	Arg	His	Pro	Gly	Gly	Gln	Trp	Pro	Pro	Gly	Asp			
180				185				190										
Pro	Leu	Trp	Gly	Leu	Pro	Val	Leu	Trp	Leu	Leu	Trp	Gly	Arg	Trp	Thr			
195				200				205										
Arg	Leu	Asn	Leu	Arg	Asp	Glu	Leu	Leu	Arg	Leu	Tyr	Ser	Met	Thr	Thr			
210				215				220										
Thr	Ile	Ser	Phe	His	Lys	Thr	Ser	Ser	Leu	Leu	Gly	Ile	Ile	Asn	Ser			
225				230				235				240						
Tyr	Leu	Leu	Pro	Ser														
245																		

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<210> 476
<211> 76
<212> PRT
<213> Homo sapiens
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<220>
<221> SITE
<222> (54)
<223> Xaa equals any of the naturally occurring L-amino acids
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<400> 476
Met Ile Tyr His Pro Ala Phe Ile Lys Tyr Val Phe Asp Asn Trp Leu
  1             5             10             15
Gln Gly His Gly Arg Tyr Pro Ser Thr Gly Ile Leu Ser Val Ile Phe
      20             25             30
Ser Met His Val Cys Asp Glu Val Asp Leu Tyr Gly Phe Gly Ala Asp
      35             40             45
Ser Lys Gly Asn Trp Xaa Pro Leu Leu Gly Glu Gln Pro Ile Arg Gly
      50             55             60
Gly Phe Ser Gln Asp Gly Gly Ala Arg Cys Arg Leu
      65             70             75

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<210> 477
<211> 176
<212> PRT
<213> Homo sapiens
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<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (169)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 477

Ser	Gln	Phe	Arg	Met	Gly	Trp	Thr	Trp	Thr	Ala	Xaa	Ser	Leu	Ala	Pro
1				5				10						15	

Gln	Arg	Leu	Met	Ser	Val	Leu	Asn	Pro	Cys	Gln	Asn	Tyr	Thr	Leu	Leu
		20					25						30		

Asp	Glu	Pro	Phe	Arg	Ser	Thr	Glu	Asn	Ser	Ala	Gly	Ser	Gln	Gly	Cys
	35						40					45			

Asp	Lys	Asn	Met	Ser	Gly	Trp	Tyr	Arg	Phe	Val	Gly	Glu	Gly	Gly	Val
	50					55					60				

Arg	Met	Ser	Glu	Thr	Cys	Val	Gln	Val	His	Arg	Cys	Gln	Thr	Asp	Ala
65					70					75					80

Pro	Met	Trp	Leu	Asn	Gly	Thr	His	Pro	Ala	Leu	Gly	Asp	Gly	Ile	Thr
			85						90					95	

Asn	His	Thr	Ala	Cys	Ala	His	Trp	Ser	Gly	Asn	Cys	Cys	Phe	Trp	Lys
			100					105					110		

Thr	Glu	Val	Leu	Val	Lys	Ala	Cys	Pro	Gly	Gly	Tyr	His	Val	Tyr	Arg
	115						120					125			

Leu	Glu	Gly	Thr	Pro	Trp	Cys	Asn	Leu	Arg	Tyr	Cys	Thr	Asp	Pro	Ser
	130					135					140				

Thr	Val	Glu	Asp	Lys	Cys	Glu	Lys	Ala	Cys	Arg	Pro	Glu	Glu	Glu	Cys
145					150					155					160

Leu	Ala	Leu	Asn	Ser	Asn	Trp	Gly	Xaa	Phe	Cys	Arg	Gln	Gly	Pro	Gln
			165						170					175	

<210> 478

419

<211> 97
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (72)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (96)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 478
Met Arg Asp Ala Leu Leu Ala Tyr Ser Pro Gln Phe Thr Leu Ser Pro
1 5 10 15
Gln Val Ile Lys Tyr Gly Leu Lys Thr Gly Asn Val Ala Ser Leu Cys
20 25 30
Pro Trp Trp Ile Gly Pro Gln Ile Val Ile Leu Thr Thr Leu Thr Ala
35 40 45
Val Lys Val Glu Gly Ile Pro Ala Trp Ile His His Ser His Val Lys
50 55 60
Pro Ala Ala Pro Glu Thr Trp Xaa Ala Arg Pro Ser Pro Asp Asn Pro
65 70 75 80
Cys Arg Val Thr Leu Lys Met Met Thr Ser Pro Val Pro Val Thr Xaa
85 90 95

Arg

<210> 479
<211> 158
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (66)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 479
Cys Asp Leu Ser Ser Arg Gln Arg Trp Asp Ile Met Ala Ser Ile Trp
1 5 10 15

420

Val Gly His Arg Gly Thr Val Arg Asp Tyr Pro Asp Phe Ser Pro Ser
 20 25 30

Val Asp Ala Glu Ala Ile Gln Lys Ala Ile Arg Gly Ile Gly Thr Asp
 35 40 45

Glu Lys Met Leu Ile Ser Ile Leu Thr Glu Arg Ser Asn Ala Gln Arg
 50 55 60

Gln Xaa Ile Val Lys Glu Tyr Gln Ala Ala Tyr Gly Lys Glu Leu Lys
 65 70 75 80

Asp Asp Leu Lys Gly Asp Leu Ser Gly His Phe Glu His Leu Met Val
 85 90 95

Ala Leu Val Thr Pro Pro Ala Val Phe Asp Ala Lys Gln Leu Lys Lys
 100 105 110

Ser Met Lys Gly Ala Gly Thr Asn Glu Asp Ala Leu Ile Glu Ile Leu
 115 120 125

Thr Thr Arg Thr Ser Arg Gln Met Lys Asp Ile Ser Gln Ala Tyr Leu
 130 135 140

Tyr Ser Ile Gln Glu Glu Ser Trp Glu Met Asp Ile Ser Phe
 145 150 155

<210> 480

<211> 105

<212> PRT

<213> Homo sapiens

<400> 480

Ile Tyr Cys Arg Met Leu Ile Phe Trp Thr Ile Thr Leu Phe Leu Leu
 1 5 10 15

Gly Ala Ala Lys Gly Lys Glu Val Cys Tyr Glu Asp Leu Gly Cys Phe
 20 25 30

Phe Asp Thr Glu Pro Trp Gly Gly Thr Ala Ile Arg Pro Leu Lys Ile
 35 40 45

Leu Pro Trp Ser Pro Glu Lys Ile Gly Thr Arg Phe Leu Leu Tyr Thr
 50 55 60

Asn Glu Asn Pro Asn Asn Phe Gln Ile Leu Leu Leu Ser Asp Pro Ser
 65 70 75 80

421

Thr Ile Glu Ala Ser Asn Phe Gln Met Asp Arg Lys Thr Arg Phe Ile
85 90 95

Ile His Gly Phe His Arg Gln Arg Gly
100 105

<210> 481

<211> 136

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 481

Ile Arg Gln Arg Phe Gln Met Asp Arg Lys Thr Arg Phe Ile Ile His
1 5 10 15

Xaa Phe Ile Asp Lys Gly Asp Glu Ser Trp Val Thr Asp Met Cys Lys
20 25 30

Lys Leu Phe Glu Val Glu Glu Val Asn Cys Ile Cys Val Asp Trp Lys
35 40 45

Lys Gly Ser Gln Ala Thr Tyr Thr Gln Ala Ala Asn Asn Val Arg Val
50 55 60

Val Gly Ala Gln Val Ala Gln Met Leu Asp Ile Leu Leu Thr Glu Tyr
65 70 75 80

Ser Tyr Pro Pro Ser Lys Val His Leu Ile Gly His Ser Leu Gly Ala
85 90 95

His Val Ala Gly Glu Ala Gly Ser Lys Thr Pro Gly Leu Ser Arg Ile
100 105 110

Thr Gly Leu Asp Pro Val Glu Ala Ser Phe Glu Ser Thr Pro Glu Glu
115 120 125

Val Arg Leu Asp Pro Ser Glu Cys
130 135

<210> 482

<211> 188

<212> PRT

422

<213> Homo sapiens

<220>

<221> SITE

<222> (124)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 482

Ala	Ser	Gln	Val	Glu	Gly	Ser	Gln	Gly	Ala	Glu	Leu	Leu	Ser	Glu	Ile
1				5					10					15	
Gln	Ser	Pro	Gln	Arg	Asn	Val	Ser	Phe	Asp	Val	Leu	Pro	Ala	Phe	Asn
			20					25					30		
Ala	Leu	Gly	Gln	Leu	Ser	Ser	Gly	Ser	Thr	Pro	Ser	Pro	Glu	Val	Tyr
	35						40					45			
Ala	Gly	Leu	Ile	Asp	Leu	Tyr	Lys	Ser	Ser	Asp	Leu	Pro	Gly	Gly	Glu
	50					55					60				
Phe	Ser	Thr	Cys	Phe	Thr	Val	Leu	Gln	Arg	Asn	Phe	Ile	Arg	Ser	Arg
65					70					75				80	
Pro	Thr	Lys	Leu	Lys	Asp	Leu	Ile	Arg	Leu	Val	Lys	His	Trp	Tyr	Lys
			85						90					95	
Glu	Cys	Glu	Arg	Lys	Leu	Lys	Pro	Lys	Gly	Ser	Leu	Pro	Pro	Lys	Tyr
		100						105					110		
Ala	Leu	Glu	Leu	Leu	Thr	Ile	Tyr	Ala	Trp	Glu	Xaa	Gly	Ser	Gly	Val
	115						120					125			
Pro	Asp	Phe	Asp	Thr	Ala	Glu	Gly	Phe	Arg	Thr	Val	Leu	Glu	Leu	Val
	130					135					140				
Thr	Gln	Tyr	Gln	Gln	Leu	Cys	Ile	Phe	Trp	Lys	Val	Asn	Tyr	Asn	Phe
145					150					155				160	
Glu	Asp	Glu	Thr	Val	Arg	Lys	Phe	Leu	Leu	Ser	Gln	Leu	Gln	Lys	Thr
			165						170				175		
Arg	Pro	Val	Asp	Leu	Gly	Pro	Ser	Arg	Thr	His	Arg				
		180						185							

<210> 483

<211> 78

<212> PRT

<213> Homo sapiens

423

<400> 483

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Arg Arg Lys Val Ala Met Asp Leu Ile Pro Asn Leu Ala Val Glu Thr
 1              5              10              15

Trp Leu Leu Leu Ala Val Ser Leu Val Leu Leu Tyr Leu Tyr Gly Thr
      20              25              30

Arg Thr His Gly Leu Phe Lys Arg Leu Gly Ile Pro Gly Pro Thr Pro
      35              40              45

Leu Pro Leu Leu Gly Asn Val Leu Ser Tyr Arg Gln Gly Leu Trp Lys
      50              55              60

Phe Asp Thr Glu Cys Tyr Lys Lys Tyr Gly Lys Met Trp Gly
 65              70              75

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<210> 484

<211> 211

<212> PRT

<213> Homo sapiens

<400> 484

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Cys Thr Ser Ser Ala Pro Arg Arg Ser Ser Pro Cys Ser Ala Gly Pro
 1              5              10              15

Thr Trp Ser Gly Thr Leu Trp Arg Arg Arg Arg Arg Cys Trp Arg Thr
      20              25              30

Gly Cys Gly Ser Arg Ser Arg Cys Cys Gly Cys Ser Arg His Tyr Arg
      35              40              45

Thr Gly Ser Ala Val Pro Arg Glu Leu Leu Glu Lys Leu Ile Glu Ser
      50              55              60

Arg Gln Ala Asn Thr Gly Leu Phe Asn Leu Arg Gln Ile Val Leu Ala
 65              70              75              80

Lys Val Asp Gln Ala Leu His Thr Gln Thr Asp Ala Asp Pro Ala Glu
      85              90              95

Glu Tyr Ala Arg Leu Cys Gln Glu Ile Leu Gly Val Pro Ala Thr Pro
      100              105              110

Gly Thr Asn Met Pro Ala Thr Phe Gly His Leu Ala Gly Gly Tyr Asp
      115              120              125

Ala Gln Tyr Tyr Gly Tyr Leu Trp Ser Glu Val Tyr Ser Met Asp Met
 130              135              140

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424

Phe His Thr Arg Phe Lys Gln Glu Gly Val Leu Asn Ser Lys Val Gly
 145 150 155 160
 Met Asp Tyr Arg Ser Cys Ile Leu Arg Pro Gly Gly Ser Glu Asp Ala
 165 170 175
 Ser Ala Met Leu Arg Arg Phe Leu Gly Arg Asp Pro Lys Gln Asp Ala
 180 185 190
 Phe Leu Leu Ser Lys Gly Leu Gln Val Gly Gly Cys Glu Pro Glu Pro
 195 200 205
 Gln Ser Gly
 210

<210> 485

<211> 371

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (122)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 485

Gly Ser Glu Lys Pro Gly Gly Ala Gly Trp Lys Glu Asp Glu Pro Thr
 1 5 10 15
 Lys Gln Arg Ser Glu Asp Ser Met Tyr Thr Ala Ile Pro Gln Ser Gly
 20 25 30
 Ser Pro Phe Pro Gly Ser Val Gln Asp Pro Gly Leu His Val Trp Arg
 35 40 45
 Val Glu Lys Leu Lys Pro Val Pro Val Ala Gln Glu Asn Gln Gly Val
 50 55 60
 Phe Phe Ser Gly Asp Ser Tyr Leu Val Leu His Asn Gly Pro Glu Glu
 65 70 75 80
 Val Ser His Leu His Leu Trp Ile Gly Gln Gln Ser Ser Arg Asp Glu
 85 90 95
 Gln Gly Ala Cys Ala Val Leu Ala Val His Leu Asn Thr Leu Leu Gly
 100 105 110
 Glu Arg Pro Val Gln His Arg Glu Val Xaa Gly Asn Glu Ser Asp Leu
 115 120 125

Phe Met Ser Tyr Phe Pro Arg Gly Leu Lys Tyr Gln Glu Gly Gly Val
 130 135 140

Glu Ser Ala Phe His Lys Thr Ser Thr Gly Ala Pro Ala Ala Ile Lys
 145 150 155 160

Lys Leu Tyr Gln Val Lys Gly Lys Lys Asn Ile Arg Ala Thr Glu Arg
 165 170 175

Ala Leu Asn Trp Asp Ser Phe Asn Thr Gly Asp Cys Phe Ile Leu Asp
 180 185 190

Leu Gly Gln Asn Ile Phe Ala Trp Cys Gly Gly Lys Ser Asn Ile Leu
 195 200 205

Glu Arg Asn Lys Ala Arg Asp Leu Ala Leu Ala Ile Arg Asp Ser Glu
 210 215 220

Arg Gln Gly Lys Ala Gln Val Glu Ile Val Thr Asp Gly Glu Glu Pro
 225 230 235 240

Ala Glu Met Ile Gln Val Leu Gly Pro Lys Pro Ala Leu Lys Glu Gly
 245 250 255

Asn Pro Glu Glu Asp Leu Thr Ala Asp Lys Ala Asn Ala Gln Ala Ala
 260 265 270

Ala Leu Tyr Lys Val Ser Asp Ala Thr Gly Gln Met Asn Leu Thr Lys
 275 280 285

Val Ala Asp Ser Ser Pro Phe Ala Leu Glu Leu Leu Ile Ser Asp Asp
 290 295 300

Cys Phe Val Leu Asp Asn Gly Leu Cys Gly Lys Ile Tyr Ile Trp Lys
 305 310 315 320

Gly Arg Lys Ala Asn Glu Lys Glu Arg Gln Ala Ala Leu Gln Val Ala
 325 330 335

Glu Gly Phe Ile Ser Arg Met Gln Tyr Ala Pro Asn Thr Gln Val Glu
 340 345 350

Ile Leu Pro Gln Gly Arg Glu Ser Pro Ile Phe Lys Gln Phe Phe Lys
 355 360 365

Asp Trp Lys
 370

<210> 486
<211> 61
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (23)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (53)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (54)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (61)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 486
Lys Gln His Phe Tyr Cys Leu Leu Pro Ala Asn Leu Tyr Leu Lys Pro
1 5 10 15
Leu Asp Thr Asp Ser Leu Xaa Trp Asp Phe Gly Ile Asp Gly Phe Leu
20 25 30
Pro Phe Phe Ser Ala Ser Ala Ser Ile Ala Phe Ile Lys Leu His Cys
35 40 45
Val Gln Lys Lys Xaa Xaa Lys Lys Lys Lys Gly Gly Xaa
50 55 60

<210> 487
<211> 198
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (151)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (180)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (195)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (198)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 487

Arg	Gly	Gly	Leu	Leu	Gly	Ala	Arg	Pro	Pro	Ala	Gln	Arg	Thr	Leu	Cys
1				5					10					15	

Cys	Pro	Ala	Arg	Cys	Gly	Cys	Cys	Trp	Arg	Ser	Trp	Pro	Ser	Pro	Arg
			20					25					30		

Arg	Ala	Ile	Gly	Ser	Ala	Glu	Ser	His	Trp	Cys	Tyr	Glu	Val	Gln	Ala
	35						40					45			

Glu	Ser	Ser	Asn	Tyr	Pro	Cys	Leu	Val	Pro	Val	Lys	Trp	Gly	Gly	Asn
	50					55					60				

Cys	Gln	Lys	Asp	Arg	Gln	Ser	Pro	Ile	Asn	Ile	Val	Thr	Thr	Lys	Ala
65					70					75					80

Lys	Val	Asp	Lys	Lys	Leu	Gly	Arg	Phe	Phe	Phe	Ser	Gly	Tyr	Asp	Lys
			85					90						95	

Lys	Gln	Thr	Trp	Thr	Val	Gln	Asn	Asn	Gly	His	Ser	Val	Met	Met	Leu
		100					105						110		

Leu	Glu	Asn	Lys	Ala	Ser	Ile	Ser	Gly	Gly	Gly	Leu	Pro	Ala	Pro	Tyr
	115						120					125			

Gln	Ala	Lys	Gln	Leu	His	Leu	His	Trp	Ser	Asp	Leu	Pro	Tyr	Lys	Gly
	130					135					140				

Ser	Glu	His	Ser	Leu	Asp	Xaa	Glu	Ala	Phe	Ala	Met	Gly	Asp	Ala	His
145					150					155				160	

Ser	Tyr	Met	Arg	Lys	Arg	Arg	Gly	His	Pro	Arg	Asn	Val	Lys	Glu	Ala
			165					170						175	

Gln	Asp	Pro	Xaa	Arg	Arg	Ile	Cys	Gly	Ala	Gly	Leu	Phe	Leu	Gly	Gly
		180						185					190		

Gly Trp Xaa Pro Gly Xaa
195

<210> 488

<211> 116

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

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<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

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<221> SITE

<222> (66)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (69)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 488

Lys Glu Gly Leu Xaa Ser Leu His Leu Leu Cys Ser Thr Ala His Tyr
1 5 10 15

Gln Lys Thr Ala Xaa Met Lys Ser Ile Tyr Phe Val Ala Gly Leu Phe
20 25 30

Val Met Leu Val Gln Gly Ser Trp Gln Arg Ser Leu Gln Asp Thr Glu
35 40 45

Glu Lys Ser Arg Ser Phe Ser Ala Ser Gln Ala Asp Pro Leu Ser Asp
50 55 60

Pro Xaa Gln Met Xaa Glu Asp Lys Arg His Ser Gln Gly Thr Phe Thr
65 70 75 80

Ser Asp Tyr Ser Lys Tyr Leu Asp Ser Arg Arg Ala Gln Asp Phe Val
85 90 95

Gln Trp Leu Met Asn Thr Lys Arg Asn Arg Asn Asn Ile Ala Lys Arg
100 105 110

His Gly Glu Phe
115

<210> 489
<211> 389
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (376)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (377)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (379)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 489
Val Trp Ser Phe Ser Leu Asp Thr Glu Pro Ser Arg Gln Ala Lys Gln
1 5 10 15

Ala Arg Thr His His Pro Ala Pro Gly Pro Ala Ser Leu Leu Pro Ser
20 25 30

Asn Ala Met Gly Ser Asn Leu Ser Pro Gln Leu Cys Leu Met Pro Phe
35 40 45

Ile Leu Gly Leu Leu Ser Gly Gly Val Thr Thr Thr Pro Trp Ser Leu
50 55 60

Ala Arg Pro Gln Gly Ser Cys Ser Leu Glu Gly Val Glu Ile Lys Gly
65 70 75 80

Gly Ser Phe Arg Leu Leu Gln Glu Gly Gln Ala Leu Glu Tyr Val Cys
85 90 95

Pro Ser Gly Phe Tyr Pro Tyr Pro Val Gln Thr Arg Thr Cys Arg Ser
100 105 110

Thr Gly Ser Trp Ser Thr Leu Lys Thr Gln Asp Gln Lys Thr Val Arg
115 120 125

430

Lys Ala Glu Cys Arg Ala Ile His Cys Pro Arg Pro His Asp Phe Glu
 130 135 140
 Asn Gly Glu Tyr Trp Pro Arg Ser Pro Tyr Tyr Asn Val Ser Asp Glu
 145 150 155 160
 Ile Ser Phe His Cys Tyr Asp Gly Tyr Thr Leu Arg Gly Ser Ala Asn
 165 170 175
 Arg Thr Cys Gln Val Asn Gly Arg Trp Ser Gly Gln Thr Ala Ile Cys
 180 185 190
 Asp Asn Gly Ala Gly Tyr Cys Ser Asn Pro Gly Ile Pro Ile Gly Thr
 195 200 205
 Arg Lys Val Gly Ser Gln Tyr Arg Leu Glu Asp Ser Val Thr Tyr His
 210 215 220
 Cys Ser Arg Gly Leu Thr Leu Arg Gly Ser Gln Arg Arg Thr Cys Gln
 225 230 235 240
 Glu Gly Gly Ser Trp Ser Gly Thr Glu Pro Ser Cys Gln Asp Ser Phe
 245 250 255
 Met Tyr Asp Thr Pro Gln Glu Val Ala Glu Ala Phe Leu Ser Ser Leu
 260 265 270
 Thr Glu Thr Ile Glu Gly Val Asp Ala Glu Asp Gly His Gly Pro Gly
 275 280 285
 Glu Gln Gln Lys Arg Lys Ile Val Leu Asp Pro Ser Gly Ser Met Asn
 290 295 300
 Ile Tyr Leu Val Leu Asp Gly Ser Asp Ser Ile Gly Ala Ser Asn Phe
 305 310 315 320
 Thr Gly Ala Lys Lys Cys Leu Val Asn Leu Ile Glu Lys Val Ala Ser
 325 330 335
 Tyr Gly Val Lys Pro Arg Tyr Gly Leu Val Thr Tyr Ala Thr Tyr Pro
 340 345 350
 Lys Ile Trp Val Lys Val Ser Glu Ala Asp Ser Ser Asn Ala Gly Leu
 355 360 365
 Gly His Gly Ser Ser Phe Asn Xaa Xaa Gln Xaa Leu Lys Thr Thr Ser
 370 375 380
 Leu Lys Ser Gly Ala
 385

431

<210> 490

<211> 187

<212> PRT

<213> Homo sapiens

<400> 490

Ala Leu Leu Glu Gly Leu Asp Tyr Tyr Thr Gly Val Ile Tyr Glu Ala
 1 5 10 15

Val Leu Leu Gln Thr Pro Ala Gln Ala Gly Glu Glu Pro Leu Gly Val
 20 25 30

Gly Ser Val Ala Ala Gly Gly Arg Tyr Asp Gly Leu Val Gly Met Phe
 35 40 45

Asp Pro Lys Gly Arg Lys Val Pro Cys Val Gly Leu Ser Ile Gly Val
 50 55 60

Glu Arg Ile Phe Ser Ile Val Glu Gln Arg Leu Glu Ala Leu Glu Glu
 65 70 75 80

Lys Ile Arg Thr Thr Glu Thr Gln Val Leu Val Ala Ser Ala Gln Lys
 85 90 95

Lys Leu Leu Glu Glu Arg Leu Lys Leu Val Ser Glu Leu Trp Asp Ala
 100 105 110

Gly Ile Lys Ala Glu Leu Leu Tyr Lys Lys Asn Pro Lys Leu Leu Asn
 115 120 125

Gln Leu Gln Tyr Cys Glu Glu Ala Gly Ile Pro Leu Val Ala Ile Ile
 130 135 140

Gly Glu Gln Glu Leu Lys Asp Gly Val Ile Lys Leu Arg Ser Val Thr
 145 150 155 160

Ser Arg Glu Glu Val Asp Val Arg Arg Glu Asp Leu Val Glu Glu Ile
 165 170 175

Lys Arg Arg Thr Gly Gln Pro Leu Cys Ile Cys
 180 185

<210> 491

<211> 271

<212> PRT

<213> Homo sapiens

432

<400> 491

Gln Tyr Lys Arg His Cys Ile Asn Cys Leu His Val Val Thr Leu Tyr
 1 5 10 15

Asn Arg Ile Lys Arg Asp Pro Ala Lys Ala Phe Val Pro Arg Thr Val
 20 25 30

Met Ile Gly Gly Lys Ala Ala Pro Gly Tyr His Met Ala Lys Leu Ile
 35 40 45

Ile Lys Leu Val Thr Ser Ile Gly Asp Val Val Asn His Asp Pro Val
 50 55 60

Val Gly Asp Arg Leu Lys Val Ile Phe Leu Glu Asn Tyr Arg Val Ser
 65 70 75 80

Leu Ala Glu Lys Val Ile Pro Ala Ala Asp Leu Ser Gln Gln Ile Ser
 85 90 95

Thr Ala Gly Thr Glu Ala Ser Gly Thr Gly Asn Met Lys Phe Met Leu
 100 105 110

Asn Gly Ala Leu Thr Ile Gly Thr Met Asp Gly Ala Asn Val Glu Met
 115 120 125

Ala Glu Glu Ala Gly Ala Glu Asn Leu Phe Ile Phe Gly Leu Arg Val
 130 135 140

Glu Asp Val Glu Ala Leu Asp Arg Lys Gly Tyr Asn Ala Arg Glu Tyr
 145 150 155 160

Tyr Asp His Leu Pro Glu Leu Lys Gln Ala Val Asp Gln Ile Ser Ser
 165 170 175

Gly Phe Phe Ser Pro Lys Glu Pro Asp Cys Phe Lys Asp Ile Val Asn
 180 185 190

Met Leu Met His His Asp Arg Phe Lys Val Phe Ala Asp Tyr Glu Ala
 195 200 205

Tyr Met Gln Cys Gln Ala Gln Val Asp Gln Leu Tyr Arg Asn Pro Lys
 210 215 220

Glu Trp Thr Lys Lys Val Ile Arg Asn Ile Ala Cys Ser Gly Lys Phe
 225 230 235 240

Ser Ser Asp Arg Thr Ile Thr Glu Tyr Ala Arg Glu Ile Trp Gly Val
 245 250 255

Glu Pro Ser Asp Leu Gln Ile Pro Pro Pro Asn Ile Pro Arg Asp
 260 265 270

<210> 492
<211> 147
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (100)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (128)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (132)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (133)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (139)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (143)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 492
Ser Thr His Ala Ser Glu Arg Gln Ser His Gln Leu Pro Leu Val Gly
1 5 10 15
Leu Leu Leu Phe Ser Phe Ile Pro Ser Gln Leu Cys Glu Ile Cys Glu
20 25 30

Val Ser Glu Glu Asn Tyr Ile Arg Leu Lys Pro Leu Leu Asn Thr Met

35 40 45
 Ile Gln Ser Asn Tyr Asn Arg Gly Thr Ser Ala Val Asn Val Val Leu
 50 55 60
 Ser Leu Lys Leu Val Gly Ile Gln Ile Gln Thr Leu Met Gln Lys Met
 65 70 75 80
 Ile Gln Gln Ile Lys Tyr Asn Val Lys Ser Arg Leu Ser Asp Val Ser
 85 90 95
 Ser Gly Glu Xaa Ala Leu Ile Ile Leu Ala Leu Gly Val Cys Arg Asn
 100 105 110
 Ala Glu Glu Asn Leu Ile Tyr Asp Tyr His Leu Ile Asp Lys Leu Xaa
 115 120 125
 Asn Xaa Ile Xaa Xaa Gln Lys Leu Glu Asn Xaa Gly Gly Thr Xaa Trp
 130 135 140
 Ala Leu Pro
 145

<210> 493

<211> 161

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (152)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 493

Leu Asp Phe Asn Leu Thr Asp Pro Glu Asn Gly Pro Val Leu Asp Asp
 1 5 10 15
 Ser Leu Pro Asn Ser Val His Glu Tyr Ile Pro Phe Ala Lys Asp Cys
 20 25 30
 Gly Asn Lys Glu Lys Cys Ile Ser Asp Leu Ser Leu His Val Ala Thr
 35 40 45
 Thr Glu Lys Asp Leu Leu Ile Val Arg Ser Gln Asn Asp Lys Phe Asn
 50 55 60
 Val Ser Leu Thr Val Lys Asn Thr Lys Asp Ser Ala Tyr Asn Thr Arg
 65 70 75 80

435

Thr Ile Val His Tyr Ser Pro Asn Leu Val Phe Ser Gly Ile Glu Ala
 85 90 95
 Ile Gln Lys Asp Ser Cys Glu Ser Asn His Asn Ile Thr Cys Lys Val
 100 105 110
 Gly Tyr Pro Phe Leu Arg Arg Gly Glu Met Val Thr Phe Lys Ile Leu
 115 120 125
 Phe Gln Phe Asn Thr Ser Tyr Leu Met Gly Lys Cys Asp His Leu Phe
 130 135 140
 Lys Cys Thr Ser Gly Gln Arg Xaa Asn Leu Leu Lys Pro Phe Leu Ile
 145 150 155 160
 Met

<210> 494
 <211> 139
 <212> PRT
 <213> Homo sapiens

<400> 494
 Val Glu Thr Gly Trp Val Glu Leu Pro Glu Val Leu Ala Pro Ser Ser
 1 5 10 15
 Arg Arg Ala Phe Pro Ile Leu His Gly Ala Leu His Leu Asp Gln Gln
 20 25 30
 Ser Pro Gly Val Glu Ala Ser Asp Trp Arg Gly Trp Arg Gly Ala His
 35 40 45
 His Leu Cys Cys Gly Pro Gly Ile Met Ser Lys Leu Trp Leu Gly Phe
 50 55 60
 Asp Leu Arg Ala Ala Ile Ala Ala Pro Ile Leu His Val Asn Ser Lys
 65 70 75 80
 Gly Cys Val Glu Tyr Glu Pro Asn Phe Ser Gln Glu Val Gln Arg Gly
 85 90 95
 Leu Gln Asp Arg Gly Gln Asn Gln Thr Gln Arg Pro Phe Phe Leu Asn
 100 105 110
 Val Val Gln Ala Val Ser Gln Glu Gly Ala Cys Val Tyr Ala Val Ser
 115 120 125
 Asp Leu Arg Lys Ser Gly Glu Ala Ala Gly Tyr

130

135

<210> 495

<211> 215

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (139)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 495

Ala Ser His Ser Arg Gly Ser Ser Ser Ser Ser His Ser Ser Ser Val
 1 5 10 15

Arg Arg Gly Ser Ser Tyr Ser Ser Ser Met Ser Thr Gly Gly Gly Gly
 20 25 30

Ala Gly Ser Leu Gly Ala Gly Gly Ala Phe Gly Glu Ala Ala Gly Asp
 35 40 45

Arg Gly Pro Tyr Gly Thr Asp Ile Gly Pro Gly Gly Gly Tyr Gly Ala
 50 55 60

Ala Ala Glu Gly Gly Met Tyr Ala Gly Asn Gly Gly Leu Leu Gly Ala
 65 70 75 80

Asp Phe Ala Gly Asp Leu Asp Tyr Asn Glu Leu Ala Val Arg Val Ser
 85 90 95

Glu Ser Met Gln Arg Gln Gly Leu Leu Gln Gly Met Ala Tyr Thr Val
 100 105 110

Gln Gly Pro Pro Gly Gln Pro Gly Pro Gln Gly Pro Pro Gly Ile Ser
 115 120 125

Lys Val Phe Ser Ala Tyr Ser Asn Val Thr Xaa Asp Leu Met Asp Phe
 130 135 140

Phe Gln Thr Tyr Gly Ala Ile Gln Gly Pro Pro Gly Gln Lys Gly Glu
 145 150 155 160

Met Gly Thr Pro Gly Pro Lys Gly Asp Arg Gly Pro Ala Gly Pro Pro
 165 170 175

Gly His Pro Gly Pro Pro Gly Pro Ser Arg Thr Gln Gly Arg Lys Arg
 180 185 190

Arg Gln Arg Leu Thr Lys Ser Met Leu Gly Gly Glu Gly Glu Glu Val
 195 200 205

Ile Gly Cys Gln Pro Leu Ser
 210 215

<210> 496

<211> 309

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (247)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 496

Pro Pro Gly Ile Pro Gly Gln Pro Gly Leu Lys Gly Leu Pro Gly Pro
 1 5 10 15

Gln Gly Pro Gln Gly Leu Pro Gly Pro Thr Gly Pro Pro Gly Asp Pro
 20 25 30

Gly Arg Asn Gly Leu Pro Gly Phe Asp Gly Ala Gly Gly Arg Lys Gly
 35 40 45

Asp Pro Gly Leu Pro Gly Gln Pro Gly Thr Arg Gly Leu Asp Gly Pro
 50 55 60

Pro Gly Pro Asp Gly Leu Gln Gly Pro Pro Gly Pro Pro Gly Thr Ser
 65 70 75 80

Ser Val Ala His Gly Phe Leu Ile Thr Arg His Ser Gln Thr Thr Asp
 85 90 95

Ala Pro Gln Cys Pro Gln Gly Thr Leu Gln Val Tyr Glu Gly Phe Ser
 100 105 110

Leu Leu Tyr Val Gln Gly Asn Lys Arg Ala His Gly Gln Asp Leu Gly
 115 120 125

Thr Ala Gly Ser Cys Leu Arg Arg Phe Ser Thr Met Pro Phe Met Phe
 130 135 140

Cys Asn Ile Asn Asn Val Cys Asn Phe Ala Ser Arg Asn Asp Tyr Ser
 145 150 155 160

Tyr Trp Leu Ser Thr Pro Glu Pro Met Pro Met Ser Met Gln Pro Leu
 165 170 175

Lys Gly Gln Ser Ile Gln Pro Phe Ile Ser Arg Cys Ala Val Cys Glu
 180 185 190
 Ala Pro Ala Val Val Ile Ala Val His Ser Gln Thr Ile Gln Ile Pro
 195 200 205
 His Cys Pro Gln Gly Trp Asp Ser Leu Trp Ile Gly Tyr Ser Phe Met
 210 215 220
 Met His Thr Ser Ala Gly Ala Glu Gly Ser Gly Gln Ala Leu Ala Ser
 225 230 235 240
 Pro Gly Ser Cys Leu Glu Xaa Phe Arg Ser Ala Pro Phe Ile Glu Cys
 245 250 255
 His Gly Arg Gly Thr Cys Asn Tyr Tyr Ala Asn Ser Tyr Ser Phe Trp
 260 265 270
 Leu Ala Thr Val Asp Val Ser Asp Met Phe Ser Lys Pro Gln Ser Glu
 275 280 285
 Thr Leu Lys Ala Gly Asp Leu Arg Thr Arg Ile Ser Arg Cys Gln Val
 290 295 300
 Cys Met Lys Arg Thr
 305

<210> 497

<211> 40

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 497

Thr Leu Cys Tyr Cys Ser Ser Gln Met Leu Phe Tyr Ile Cys Lys Lys
 1 5 10 15

Leu Thr Ser His Gln Met Leu Ser Ser Thr Glu Ile Leu Lys Trp Leu
 20 25 30

Arg Gly Asn Ile Asp Xaa Gln Xaa
 35 40

<210> 498

<211> 88

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 498

Cys Pro Arg Ser Leu Xaa Tyr Phe Arg Met Tyr Ala Lys Glu Phe Asp
 1 5 10 15

Leu Leu Lys Tyr Ile Arg Phe Lys Thr Thr Val Cys Ser Val Lys Lys
 20 25 30

Gln Pro Asp Phe Ala Thr Ser Gly Gln Trp Glu Val Val Thr Glu Ser
 35 40 45

Glu Gly Lys Lys Glu Met Asn Val Phe Asp Gly Val Met Val Cys Thr
 50 55 60

Gly His His Thr Asn Ala His Leu Pro Leu Glu Ser Phe Pro Gly Glu
 65 70 75 80

Gln Leu Thr Arg Lys Glu Asp Pro
 85

<210> 499

<211> 253

<212> PRT

<213> Homo sapiens

<400> 499

Leu Arg Trp Leu Pro Ala Ala Ser Thr Ser Leu Ala Ala Leu Ala Thr
 1 5 10 15

Leu Ala Asp Cys Cys Ala Ala Gly Ala Met Ser Val Ser Glu Ile Phe
 20 25 30

Val Glu Leu Gln Gly Phe Leu Ala Ala Glu Gln Asp Ile Arg Glu Glu
 35 40 45

440

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Ile Arg Lys Val Val Gln Ser Leu Glu Gln Thr Ala Arg Glu Ile Leu
  50                      55                      60

Thr Leu Leu Gln Gly Val His Gln Gly Ala Gly Phe Gln Asp Ile Pro
  65                      70                      75                      80

Lys Arg Cys Leu Lys Ala Arg Glu His Phe Gly Thr Val Lys Thr His
                      85                      90                      95

Leu Thr Ser Leu Lys Thr Lys Phe Pro Ala Glu Gln Tyr Tyr Arg Phe
      100                      105                      110

His Glu His Trp Arg Phe Val Leu Gln Arg Leu Val Phe Leu Ala Ala
      115                      120                      125

Phe Val Val Tyr Leu Glu Thr Glu Thr Leu Val Thr Arg Glu Ala Val
      130                      135                      140

Thr Glu Ile Leu Gly Ile Glu Pro Asp Arg Glu Lys Gly Phe His Leu
      145                      150                      155                      160

Asp Val Glu Asp Tyr Leu Ser Gly Val Leu Ile Leu Ala Ser Glu Leu
                      165                      170                      175

Ser Arg Leu Ser Val Asn Ser Val Thr Ala Gly Asp Tyr Ser Arg Pro
                      180                      185                      190

Leu His Ile Ser Thr Phe Ile Asn Glu Leu Asp Ser Gly Phe Arg Leu
      195                      200                      205

Leu Asn Leu Lys Asn Asp Ser Leu Arg Lys Arg Tyr Asp Gly Leu Lys
      210                      215                      220

Tyr Asp Val Lys Lys Val Glu Glu Val Val Tyr Asp Leu Ser Ile Arg
      225                      230                      235                      240

Gly Phe Asn Lys Glu Thr Ala Ala Ala Cys Val Glu Lys
      245                      250

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<210> 500

<211> 169

<212> PRT

<213> Homo sapiens

<400> 500

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Arg Thr Arg Gly Arg Thr Arg Gly Leu Glu Phe Gly Leu Gln Pro His
  1                      5                      10                      15

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Lys Ile Pro Asp Thr Glu Thr Leu Cys Tyr Val Met Pro Ser Ser Ser
20 25 30

Ala Arg Cys Ala Gln Phe Pro Arg Ala Gln Asp Lys Val His Tyr Tyr
35 40 45

Ile Lys Leu Lys Asp Leu Arg Asp Gln Leu Lys Gly Ile Glu Arg Asn
50 55 60

Met Asp Val Gln Glu Val Gln Tyr Thr Phe Asp Leu Gln Leu Ala Gln
65 70 75 80

Glu Asp Ala Lys Lys Met Ala Val Lys Glu Glu Lys Tyr Asp Pro Gly
85 90 95

Tyr Glu Ala Ala Tyr Gly Gly Ala Tyr Gly Glu Asn Pro Cys Ser Ser
100 105 110

Glu Pro Cys Gly Phe Ser Ser Asn Gly Leu Ile Glu Ser Val Glu Leu
115 120 125

Arg Gly Glu Ser Ala Phe Ser Gly Ile Pro Asn Gly Gln Trp Met Thr
130 135 140

Gln Ser Phe Thr Asp Gln Ile Pro Ser Phe Ser Asn His Cys Gly Thr
145 150 155 160

Gln Glu Gln Glu Glu Glu Ser His Ala
165

<210> 501

<211> 119

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (54)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (55)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (83)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (88)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (97)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (99)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (101)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (117)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 501
 Gly His Xaa Ala Arg Gln Gly His Leu Ser Ser Pro Thr Asp Gly Xaa
 1 5 10 15
 Arg Gln Gly His Ser Gln Phe Trp Glu Val Ile Ser Asp Glu His Ala
 20 25 30
 Ile Asp Ser Ala Gly Thr Tyr His Gly Asp Ser His Leu Gln Leu Glu
 35 40 45
 Arg Ile Asn Val Tyr Xaa Xaa Glu Ala Ser Gly Gly Arg Tyr Val Pro
 50 55 60
 Arg Ala Val Leu Val Asp Leu Glu Pro Gly Thr Met Asp Ser Val Arg
 65 70 75 80

Ser Gly Xaa Phe Gly Gln Val Xaa Arg Pro Asp Asn Phe Ile Phe Gly
 85 90 95
 Xaa Leu Xaa Ala Xaa Thr Gly Val Arg Leu Leu Ser Gln Gly Ser Ser
 100 105 110
 Lys Ser Arg Asn Xaa Pro Arg
 115

<210> 502
 <211> 112
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (30)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (43)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (54)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (103)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (109)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (110)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 502
 Thr His Leu Trp Lys Arg Asn Pro Cys Asp Cys Gly Thr Lys Lys Ser
 1 5 10 15

Ala Ser Tyr Gln Thr Ile Arg Phe Cys His Glu Lys Trp Xaa Lys Cys
 20 25 30

Arg Leu Ser Gly Glu Gly Phe Tyr Pro Lys Xaa Ile Arg Ile Asn Leu
 35 40 45

Val Ser Ser Lys Lys Xaa Thr Glu Phe Asp Pro Ala Ile Val Ile Ser
 50 55 60

Pro Ser Gly Lys Tyr Asn Ala Val Asn Leu Gly Lys Tyr Glu Asp Ser
 65 70 75 80

Asn Ser Val Thr Cys Ser Val Gln His Asp Asn Lys Thr Val His Ser
 85 90 95

Thr Asp Phe Gly Ser Glu Xaa Arg Phe Tyr Arg Ser Xaa Xaa Thr Lys
 100 105 110

<210> 503

<211> 156

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (137)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 503

Asp Ser Ser His Arg Ser Arg Arg His His Arg Ala Ser Ala Ser Ala
 1 5 10 15

Ala Ala Ala Ala Ala Pro Gly Pro Arg Pro Phe Ala Ala Leu Val Xaa
 20 25 30

Pro Ala Leu Leu Arg Arg Arg Leu Pro Pro Arg Pro Ala Met Pro Leu
 35 40 45

Tyr Ser Val Thr Val Lys Trp Gly Lys Glu Lys Phe Glu Gly Val Glu
 50 55 60

Leu Asn Thr Asp Glu Pro Pro Met Val Phe Lys Ala Gln Leu Phe Ala
 65 70 75 80

Leu Thr Gly Val Gln Pro Ala Arg Gln Lys Val Met Val Lys Gly Gly
 85 90 95

Thr Leu Lys Asp Asp Asp Trp Gly Asn Ile Lys Ile Lys Asn Gly Met
 100 105 110

Thr Leu Leu Met Met Gly Ser Ala Asp Ala Leu Pro Glu Glu Pro Ser
 115 120 125

Ala Lys Thr Val Phe Val Glu Asp Xaa Asp Arg Arg Thr Val Ser Ile
 130 135 140

Cys Tyr Gly Val Thr Met Trp Ile Asp Lys Pro Trp
 145 150 155

<210> 504

<211> SITE

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (104)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (117)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (154)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 504

Val Phe Lys Glu Gln Glu Leu Xaa Pro Glu Asp Lys Gly Ala Val Pro
 1 5 10 15

Glu Asp Ala Ser Thr Glu Arg Ser Ala Met Ala Ser Leu Gly Leu Gln
 20 25 30

446

Leu Val Gly Tyr Ile Leu Gly Leu Leu Gly Leu Leu Gly Thr Leu Val
 35 40 45
 Ala Met Leu Leu Pro Ser Trp Lys Thr Ser Ser Tyr Val Gly Ala Ser
 50 55 60
 Ile Val Thr Ala Val Gly Phe Ser Lys Gly Leu Trp Met Glu Cys Ala
 65 70 75 80
 Thr His Ser Thr Gly Ile Thr Gln Cys Asp Ile Tyr Ser Thr Leu Leu
 85 90 95
 Gly Leu Pro Ala Asp Ile Gln Xaa Ala Gln Ala Met Met Val Thr Ser
 100 105 110
 Ser Ala Ile Ser Xaa Leu Ala Cys Ile Ile Ser Val Val Gly Met Arg
 115 120 125
 Cys Thr Val Phe Cys Gln Glu Ser Arg Ala Lys Asp Arg Val Ala Val
 130 135 140
 Ala Gly Gly Val Phe Phe Ile Leu Gly Xaa Leu
 145 150 155

<210> 505

<211> 120

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (76)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 505

Ser Asp His Pro Pro Pro Ala Leu His Gln Ala Thr Gly Leu Gly
 1 5 10 15
 Phe Leu Leu Ile Thr Ile Cys Cys Tyr His Gly Thr Gln Gln Gly Ile
 20 25 30
 Pro Gly Pro Pro Ala Lys Trp Leu Pro Lys Ser Pro Leu Leu Thr Gln
 35 40 45
 Lys Ser Gly Met Ala Leu Lys Arg Cys Lys Phe Leu Tyr Cys Tyr Pro
 50 55 60
 Pro His His Gln Asp His Val Gly Cys Ser Leu Xaa Ser Leu Thr Arg

447

65 70 75 80

Phe Pro Lys Lys Val Leu Pro Pro Phe Gln Thr Asp Glu Arg Gly Gln
 85 90 95

Asp Phe Arg Leu Asp Pro Pro Leu Gly Ser Pro Ser Pro Ser Leu Glu
 100 105 110

His Gly Arg Gly Gly Asp Gly Trp
 115 120

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<210> 506
<211> 102
<212> PRT
<213> Homo sapiens
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<220>
<221> SITE
<222> (45)
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>
<221> SITE
<222> (80)
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>
<221> SITE
<222> (92)
<223> Xaa equals any of the naturally occurring L-amino acids
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<400> 506
Pro Phe Gln Pro Pro Leu Leu Asp Leu Arg Arg Pro Ser Gln Gln Ser
  1                   5                  10                 15
```

Gln Trp Pro Gln His Leu Ala Gly Gln Leu Pro Ser Leu Leu Ile Cys
20 25 30

Gln Thr Arg Thr Gln Thr Lys Pro Met Arg Asn Gly Xaa Thr Ala Ser
35 40 45

Glu Ser Ser Asp Phe Thr Ser Glu Arg Arg Gly Asp Lys Glu Ala Pro
50 55 60

Pro Pro Val Leu Leu Thr Pro Lys Ala Val Gly Thr Pro Gly Gly Xaa
65 70 75 80

Gly Gly Gly Ala Leu Pro Gly Ile Ser Ala Met Xaa Arg Gly Asp Leu
85 90 95

Ser Gln Arg Ala Lys Ile
100

<210> 507

<211> 103

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (68)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 507

Cys Gln Gln Leu Ile Tyr Glu Pro Thr Ile Val Pro His Cys Thr Lys
1 5 10 15

Val Ser His Lys Arg Asn Arg Ile Phe Trp Ser Thr Asp Cys Ser Arg
20 25 30

Val Ala Pro Leu Cys Ala Ala Gly Val Val Val Phe Ile Phe Met Val
35 40 45

Arg Phe Asn Ile Asn Tyr Leu Ser Cys His Ala Phe Phe Phe Leu Gln
50 55 60

Phe Ser Arg Xaa Ser Thr Glu Gln Phe Leu Ile Ser Tyr Leu Glu Tyr
65 70 75 80

Glu Ser Arg Phe Tyr Phe Val Met Leu Ile Ile Pro Lys Asp Ala Leu
85 90 95

Asn Ala Trp Lys Asn Ala Phe
100

<210> 508

<211> 51

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 508

Glu Pro Pro Leu Ile Val Ser Ser Phe Ser Gly Gln Glu Ala Gln Thr
1 5 10 15

Glu Leu Pro Gln Ala Arg Ile Ser Cys Pro Glu Gly Thr Asn Ala Xaa
20 25 30

Arg Ser Tyr Xaa Tyr Tyr Phe Asn Gly Arg Pro Trp Arg Pro Gly Leu
35 40 45

Met Gln Met
50

<210> 509

<211> 73

<212> PRT

<213> Homo sapiens

<400> 509

Ile Phe Leu Tyr Phe Thr Trp Ala Ser Leu Tyr Thr Ala Ile Tyr Thr
1 5 10 15

Ile Ile Ser Tyr Ser Tyr Met Phe Phe Val Pro Phe Val Val Leu Phe
20 25 30

Val Leu Leu Asp Ser Tyr Leu Asp Gly Asn Ala Leu Ser Gly Phe Gly
35 40 45

Cys Phe Ser Cys Phe Ser Ile Cys Ile Lys Lys Leu Val His Val Asn
50 55 60

Thr Phe His Val Phe Ser Ser Asn Val
65 70

<210> 510

<211> 218

<212> PRT

<213> Homo sapiens

<400> 510

Glu Thr Arg Val Pro Ala Arg Pro Gly Gln Ala Arg Ala Met Glu Phe
1 5 10 15

450

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Leu Trp Ala Pro Leu Leu Gly Leu Cys Cys Ser Leu Ala Ala Ala Asp
      20                      25                      30

Arg His Thr Val Phe Trp Asn Ser Ser Asn Pro Lys Phe Arg Asn Glu
      35                      40                      45

Asp Tyr Thr Ile His Val Gln Leu Asn Asp Tyr Val Asp Ile Ile Cys
      50                      55                      60

Pro His Tyr Glu Asp His Ser Val Ala Asp Ala Ala Met Glu Gln Tyr
      65                      70                      75                      80

Ile Leu Tyr Leu Val Glu His Glu Glu Tyr Gln Leu Cys Gln Pro Gln
      85                      90                      95

Ser Lys Asp Gln Val Arg Trp Gln Cys Asn Arg Pro Ser Ala Lys His
      100                     105                     110

Gly Pro Glu Lys Leu Ser Glu Lys Phe Gln Arg Phe Thr Pro Phe Thr
      115                     120                     125

Leu Gly Lys Glu Phe Lys Glu Gly His Ser Tyr Tyr Tyr Ile Ser Lys
      130                     135                     140

Pro Ile His Gln His Glu Asp Arg Cys Leu Arg Leu Lys Val Thr Val
      145                     150                     155                     160

Ser Gly Lys Ile Thr His Ser Pro Gln Ala His Asp Asn Pro Gln Glu
      165                     170                     175

Lys Arg Leu Ala Ala Asp Asp Pro Glu Val Arg Val Leu His Ser Ile
      180                     185                     190

Gly His Ser Ala Ala Pro Arg Leu Phe Pro Leu Ala Trp Thr Val Leu
      195                     200                     205

Leu Leu Pro Leu Leu Leu Leu Gln Thr Pro
      210                     215

```

<210> 511

<211> 156

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (156)

<223> Xaa equals any of the naturally occurring L-amino acids

451

<400> 511

Phe Phe Ser His Leu Asp Cys Lys Met Lys Leu Leu Val Leu Ala Val
 1 5 10 15
 Leu Leu Thr Val Ala Ala Ala Asp Ser Gly Ile Ser Pro Arg Ala Val
 20 25 30
 Trp Gln Phe Arg Lys Met Ile Lys Cys Val Ile Pro Gly Ser Asp Pro
 35 40 45
 Phe Leu Glu Tyr Asn Asn Tyr Gly Cys Tyr Cys Gly Leu Gly Gly Ser
 50 55 60
 Gly Thr Pro Val Asp Glu Leu Asp Lys Cys Cys Gln Thr His Asp Asn
 65 70 75 80
 Cys Tyr Asp Gln Ala Lys Lys Leu Asp Ser Cys Lys Phe Leu Leu Asp
 85 90 95
 Asn Pro Tyr Thr His Thr Tyr Ser Tyr Ser Cys Ser Gly Ser Ala Ile
 100 105 110
 Thr Cys Ser Ser Lys Asn Lys Glu Cys Glu Ala Phe Ile Cys Asn Cys
 115 120 125
 Asp Arg Asn Ala Ala Ile Cys Phe Ser Lys Ala Pro Tyr Asn Lys Ala
 130 135 140
 His Lys Asn Leu Asp Thr Lys Lys Tyr Cys Gln Xaa
 145 150 155

<210> 512

<211> 169

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (143)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (144)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 512

Glu Ser Arg Pro Ala Asp Arg Arg Val Leu Pro Pro Ile His Val Lys
 1 5 10 15

452

Met Thr Lys Phe Gly Phe Leu Arg Leu Ser Tyr Glu Lys Gln Asp Thr
 20 25 30
 Leu Leu Lys Leu Leu Ile Leu Ser Met Ala Ala Val Leu Ser Phe Ser
 35 40 45
 Thr Arg Leu Phe Ala Val Leu Arg Phe Glu Ser Val Ile His Glu Phe
 50 55 60
 Asp Pro Tyr Phe Asn Tyr Arg Thr Thr Arg Phe Leu Ala Glu Glu Gly
 65 70 75 80
 Phe Tyr Lys Phe His Asn Trp Phe Asp Asp Arg Ala Trp Tyr Pro Leu
 85 90 95
 Gly Arg Ile Ile Gly Gly Thr Ile Tyr Pro Gly Leu Met Ile Thr Ser
 100 105 110
 Ala Ala Ile Tyr His Val Leu His Phe Phe His Ile Thr Ile Asp Ile
 115 120 125
 Arg Asn Val Cys Val Phe Leu Ala Pro Leu Phe Ser Ser Phe Xaa Xaa
 130 135 140
 Ile Val Thr Tyr His Leu Thr Lys Glu Leu Lys Asp Ala Gly Ala Gly
 145 150 155 160
 Leu Leu Ala Ala Ala Met Ile Ala Val
 165

<210> 513

<211> 330

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 513

Ser Leu Cys Ser Arg Leu Phe Glu Leu Xaa Val Tyr Gln Gln Gly Asp
 1 5 10 15

Leu Asp Lys Ala Leu Leu Leu Thr Lys Lys Leu Leu Glu Leu Asp Pro
 20 25 30

Glu His Gln Arg Ala Asn Gly Asn Leu Lys Tyr Phe Glu Tyr Ile Met

Ala	Lys	Glu	Lys	Asp	Val	Asn	Lys	Ser	Ala	Ser	Asp	Gln	Ser	Asp	
50						55					60				
Gln	Lys	Thr	Thr	Pro	Lys	Lys	Lys	Gly	Val	Ala	Val	Asp	Tyr	Leu	Pro
65					70					75					80
Glu	Arg	Gln	Lys	Tyr	Glu	Met	Leu	Cys	Arg	Gly	Glu	Gly	Ile	Lys	Met
				85					90					95	
Thr	Pro	Arg	Arg	Gln	Lys	Lys	Leu	Phe	Cys	Arg	Tyr	His	Asp	Gly	Asn
			100					105					110		
Arg	Asn	Pro	Lys	Phe	Ile	Leu	Ala	Pro	Ala	Lys	Gln	Glu	Asp	Glu	Trp
		115					120					125			
Asp	Lys	Pro	Arg	Ile	Ile	Arg	Phe	His	Asp	Ile	Ile	Ser	Asp	Ala	Glu
	130					135					140				
Ile	Glu	Ile	Val	Lys	Asp	Leu	Ala	Lys	Pro	Arg	Leu	Arg	Arg	Ala	Thr
145					150					155					160
Ile	Ser	Asn	Pro	Ile	Thr	Gly	Asp	Leu	Glu	Thr	Val	His	Tyr	Arg	Ile
				165					170					175	
Ser	Lys	Ser	Ala	Trp	Leu	Ser	Gly	Tyr	Glu	Asn	Pro	Val	Val	Ser	Arg
			180					185					190		
Ile	Asn	Met	Arg	Ile	Gln	Asp	Leu	Thr	Gly	Leu	Asp	Val	Ser	Thr	Ala
	195						200					205			
Glu	Glu	Leu	Gln	Val	Ala	Asn	Tyr	Gly	Val	Gly	Gly	Gln	Tyr	Glu	Pro
	210					215					220				
His	Phe	Asp	Phe	Ala	Arg	Lys	Asp	Glu	Pro	Asp	Ala	Phe	Lys	Glu	Leu
225					230					235					240
Gly	Thr	Gly	Asn	Arg	Ile	Ala	Thr	Trp	Leu	Phe	Tyr	Met	Ser	Asp	Val
				245					250					255	
Ser	Ala	Gly	Gly	Ala	Thr	Val	Phe	Pro	Glu	Val	Gly	Ala	Ser	Val	Trp
			260					265					270		
Pro	Lys	Lys	Gly	Thr	Ala	Val	Phe	Trp	Tyr	Asn	Leu	Phe	Ala	Ser	Gly
		275					280					285			
Glu	Gly	Asp	Tyr	Ser	Thr	Arg	His	Ala	Ala	Cys	Pro	Val	Leu	Val	Gly
	290					295					300				
Asn	Lys	Trp	Val	Ser	Asn	Lys	Trp	Leu	His	Glu	Arg	Gly	Gln	Glu	Phe

305 310 315 320

Arg Arg Pro Cys Thr Leu Ser Glu Leu Glu
325 330

<210> 514

<211> 60

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 514

Xaa Tyr Leu Val Leu Xaa Xaa Xaa Ser Gly Ile Phe Ser Ser His Phe
1 5 10 15

His Trp His Lys Ser Leu Leu Tyr Val Ile Gln Phe Lys Leu Leu Asn
20 25 30

Gln Lys Phe Tyr Gly Pro Val Ser Leu Ala Lys Arg Cys Trp Arg Glu
35 40 45

Cys Asn Ile Gln Leu Ile Cys Gly Tyr Ile Tyr Ile
50 55 60

<210> 515

<211> 311

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (155)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 515

Ala	Glu	Asp	Val	Asp	His	Asp	Gly	Gly	Leu	Gly	Gly	Leu	Gln	His	His	1	5	10	15
Pro	Thr	Pro	His	Pro	Arg	Pro	Arg	Pro	Gly	Asp	Tyr	Ser	Gln	Val	Leu	20	25	30	
Phe	Glu	Arg	Pro	Gly	Ile	Trp	Lys	Asp	Leu	Lys	Thr	Met	Gly	Ser	Val	35	40	45	
Ser	Leu	Ser	Ile	Phe	Phe	Ile	Thr	Leu	Leu	Val	Leu	Gly	Arg	Gln	Asn	50	55	60	
Glu	Tyr	Tyr	Cys	Arg	Leu	Asp	Phe	Leu	Trp	Lys	Asn	Lys	Phe	Lys	Lys	65	70	75	80
Glu	Arg	Glu	Glu	Ile	Glu	Thr	Met	Glu	Asn	Leu	Asn	Arg	Val	Leu	Leu	85	90	95	
Glu	Asn	Val	Leu	Pro	Ala	His	Val	Ala	Glu	His	Phe	Leu	Ala	Arg	Ser	100	105	110	
Leu	Lys	Asn	Glu	Glu	Leu	Tyr	His	Gln	Ser	Tyr	Asp	Cys	Val	Cys	Val	115	120	125	
Met	Phe	Ala	Ser	Ile	Pro	Asp	Phe	Lys	Glu	Phe	Tyr	Thr	Glu	Ser	Asp	130	135	140	
Val	Asn	Lys	Glu	Gly	Leu	Glu	Cys	Leu	Arg	Xaa	Leu	Asn	Glu	Ile	Ile	145	150	155	160
Ala	Asp	Phe	Asp	Asp	Leu	Leu	Ser	Lys	Pro	Lys	Phe	Ser	Gly	Val	Glu	165	170	175	
Lys	Ile	Lys	Thr	Ile	Gly	Ser	Thr	Tyr	Met	Ala	Ala	Thr	Gly	Leu	Ser	180	185	190	
Ala	Val	Pro	Ser	Gln	Glu	His	Ser	Gln	Glu	Pro	Glu	Arg	Gln	Tyr	Met	195	200	205	
His	Ile	Gly	Thr	Met	Val	Glu	Phe	Ala	Phe	Ala	Leu	Val	Gly	Lys	Leu	210	215	220	
Asp	Ala	Ile	Asn	Lys	His	Ser	Phe	Asn	Asp	Phe	Lys	Leu	Arg	Val	Gly	225	230	235	240

456

Ile Asn His Gly Pro Val Ile Ala Gly Val Ile Gly Ala Gln Lys Pro
 245 250 255

Gln Tyr Asp Ile Trp Gly Asn Thr Val Asn Val Ala Ser Arg Met Asp
 260 265 270

Ser Thr Gly Val Leu Asp Lys Ile Gln Val Thr Glu Glu Thr Ser Leu
 275 280 285

Val Leu Gln Thr Leu Gly Tyr Thr Cys Thr Cys Arg Gly Ile Ile Gln
 290 295 300

Arg Glu Arg Glu Arg Gly Thr
 305 310

<210> 516

<211> 85

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (84)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 516

Ser Gly Leu Leu Val Leu Ser Val Leu Leu Gly Ala Val Phe Gly Lys
 1 5 10 15

Glu Asp Phe Val Gly His Gln Val Leu Arg Ile Ser Val Ala Asp Glu
 20 25 30

Ala Gln Val Gln Lys Val Lys Glu Leu Glu Asp Leu Glu His Leu Gln
 35 40 45

Leu Asp Phe Trp Arg Gly Pro Ala His Pro Gly Ser Pro Ile Asp Val
 50 55 60

Arg Val Pro Phe Pro Ser Ile Gln Ala Val Lys Ile Phe Leu Glu Phe
 65 70 75 80

His Gly Ile Xaa Tyr
 85

<210> 517

<211> 406

<212> PRT

<213> Homo sapiens

<400> 517

Gly His Glu Gly Ser Met Arg Gly Leu Leu Val Leu Ser Val Leu Leu
 1 5 10 15
 Gly Ala Val Phe Gly Lys Glu Asp Phe Val Gly His Gln Val Leu Arg
 20 25 30
 Ile Ser Val Ala Asp Glu Ala Gln Val Gln Lys Val Lys Glu Leu Glu
 35 40 45
 Asp Leu Glu His Leu Gln Leu Asp Phe Trp Arg Gly Pro Ala His Pro
 50 55 60
 Gly Ser Pro Ile Asp Val Arg Val Pro Phe Pro Ser Ile Gln Ala Val
 65 70 75 80
 Lys Ile Phe Leu Glu Ser His Gly Ile Ser Tyr Glu Thr Met Ile Glu
 85 90 95
 Asp Val Gln Ser Leu Leu Asp Glu Glu Gln Glu Gln Met Phe Ala Phe
 100 105 110
 Arg Ser Arg Ala Arg Ser Thr Asp Thr Phe Asn Tyr Ala Thr Tyr His
 115 120 125
 Thr Leu Glu Glu Ile Tyr Asp Phe Leu Asp Leu Leu Val Ala Glu Asn
 130 135 140
 Pro His Leu Val Ser Lys Ile Gln Ile Gly Asn Thr Tyr Glu Gly Arg
 145 150 155 160
 Pro Ile Tyr Val Leu Lys Phe Ser Thr Gly Gly Ser Lys Arg Pro Ala
 165 170 175
 Ile Trp Ile Asp Thr Gly Ile His Ser Arg Glu Trp Val Thr Gln Ala
 180 185 190
 Ser Gly Val Trp Phe Ala Lys Lys Ile Thr Gln Asp Tyr Gly Gln Asp
 195 200 205
 Ala Ala Phe Thr Ala Ile Leu Asp Thr Leu Asp Ile Phe Leu Glu Ile
 210 215 220
 Val Thr Asn Pro Asp Gly Phe Ala Phe Thr His Ser Thr Asn Arg Met
 225 230 235 240
 Trp Arg Lys Thr Arg Ser His Thr Ala Gly Ser Leu Cys Ile Gly Val
 245 250 255

Asp Pro Asn Arg Asn Trp Asp Ala Gly Phe Gly Leu Ser Gly Ala Ser
 260 265 270
 Ser Asn Pro Cys Ser Glu Thr Tyr His Gly Lys Phe Ala Asn Ser Glu
 275 280 285
 Val Glu Val Lys Ser Ile Val Asp Phe Val Lys Asp His Gly Asn Ile
 290 295 300
 Lys Ala Phe Ile Ser Ile His Ser Tyr Ser Gln Leu Leu Met Tyr Pro
 305 310 315 320
 Tyr Gly Tyr Lys Thr Glu Pro Val Pro Asp Gln Asp Glu Leu Asp Gln
 325 330 335
 Leu Ser Lys Ala Ala Val Thr Ala Leu Ala Ser Leu Tyr Gly Thr Lys
 340 345 350
 Phe Asn Tyr Gly Ser Ile Ile Lys Ala Ile Tyr Gln Ala Ser Gly Ser
 355 360 365
 Thr Ile Asp Trp Thr Tyr Ser Gln Gly Ile Lys Tyr Ser Phe Thr Phe
 370 375 380
 Glu Leu Arg Asp Thr Gly Arg Tyr Gly Phe Leu Leu Pro Ala Ser Gln
 385 390 395 400
 Ile Ile Pro Thr Ala Asn
 405

<210> 518

<211> 217

<212> PRT

<213> Homo sapiens

<400> 518

Arg Ala Ala Val Gln Ser Arg His Leu Val Gly Ala Lys Pro Thr Pro
 1 5 10 15
 Gly Ser Glu Gln Gln Pro Leu Arg Cys Pro Trp Pro Val Ser Phe His
 20 25 30
 Leu Ser Thr Ser Met Gly Asn Ile Phe Ala Asn Leu Phe Lys Gly Leu
 35 40 45
 Phe Gly Lys Lys Glu Met Arg Ile Leu Met Val Gly Leu Asp Ala Ala
 50 55 60

Gly Lys Thr Thr Ile Leu Tyr Lys Leu Lys Leu Gly Glu Ile Val Thr
 65 70 75 80
 Thr Ile Pro Thr Ile Gly Phe Asn Val Glu Thr Val Glu Tyr Lys Asn
 85 90 95
 Ile Ser Phe Thr Val Trp Asp Val Gly Gly Gln Asp Lys Ile Arg Pro
 100 105 110
 Leu Trp Arg His Tyr Phe Gln Asn Thr Gln Gly Leu Ile Phe Val Val
 115 120 125
 Asp Ser Asn Asp Arg Glu Arg Val Asn Glu Ala Arg Glu Glu Leu Met
 130 135 140
 Arg Met Leu Ala Glu Asp Glu Leu Arg Asp Ala Val Leu Leu Val Phe
 145 150 155 160
 Ala Asn Lys Gln Asp Leu Pro Asn Ala Met Asn Ala Ala Glu Ile Thr
 165 170 175
 Asp Lys Leu Gly Leu His Ser Leu Arg His Arg Asn Trp Tyr Ile Gln
 180 185 190
 Ala Thr Cys Ala Thr Ser Gly Asp Gly Leu Tyr Glu Gly Leu Asp Trp
 195 200 205
 Leu Ser Asn Gln Leu Arg Asn Gln Lys
 210 215

<210> 519

<211> 112

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (86)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (96)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (111)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 519

Leu Leu Phe Leu Lys Arg Cys Ser Val Lys Leu Ala Leu Arg Val Arg
 1 5 10 15

Glu Ala Cys Asp Leu Lys Thr Glu Asn Trp Glu Glu Thr Leu Tyr Pro
 20 25 30

Val Leu Leu Ala Gly Phe Asp Arg Ser Arg Ser Ala Trp Asp Phe Leu
 35 40 45

Lys Leu Cys Pro Lys Leu Gln Leu Trp Glu Trp Arg Asn Lys Gln Ala
 50 55 60

Ser Pro Arg Ile Val Lys Glu Ile Ala Leu Val Asp Glu Thr Lys Thr
 65 70 75 80

Asn Ala Leu Asp Phe Xaa Ala Leu Pro Gly Val Val Thr Arg Gly Xaa
 85 90 95

Asn Val Cys Gly His Ile Leu Asn Ser Lys Val Phe Ser Ser Xaa Gly
 100 105 110

<210> 520

<211> 71

<212> PRT

<213> Homo sapiens

<400> 520

Lys Ala Arg Val Gln Ile Arg Leu Val Ser Leu Val Gly Asp Tyr Phe
 1 5 10 15

Trp Val His Ser Val Val Gln Glu Thr Leu Val Lys His Leu Leu Leu
 20 25 30

Leu Asp Thr Met Leu Asp Thr Glu Asp Asn Glu Gly Lys Ile Asp Ile
 35 40 45

Val Pro Ala Leu Met Glu Leu Ile Val Ser Cys Gly Leu Ser Glu Gln
 50 55 60

Ser Leu Asn Leu Leu Leu Tyr
 65 70

461

<210> 521
 <211> 183
 <212> PRT
 <213> Homo sapiens

<400> 521
 Ala Ala Val Asn His Leu Gln Ser Ala Gly Ser Thr Ser Pro Ile Leu
 1 5 10 15
 Ala Ala Ala Gln Ser Leu His Arg Glu Ala Thr Lys Trp Ser Ser Lys
 20 25 30
 Gly Asn Asp Ile Ile Ala Ala Ala Lys Arg Met Ala Leu Leu Met Ala
 35 40 45
 Glu Met Ser Arg Leu Val Arg Gly Gly Ser Gly Thr Lys Arg Ala Leu
 50 55 60
 Ile Gln Cys Ala Lys Asp Ile Ala Lys Ala Ser Asp Glu Val Thr Arg
 65 70 75 80
 Leu Ala Lys Glu Val Ala Lys Gln Cys Thr Asp Lys Arg Ile Arg Thr
 85 90 95
 Asn Leu Leu Gln Val Cys Glu Arg Ile Pro Thr Ile Ser Thr Gln Leu
 100 105 110
 Lys Ile Leu Ser Thr Val Lys Ala Thr Met Leu Gly Arg Thr Asn Ile
 115 120 125
 Ser Asp Glu Glu Ser Glu Gln Ala Thr Glu Met Leu Val His Asn Ala
 130 135 140
 Gln Asn Leu Met Gln Ser Val Lys Glu Thr Val Arg Glu Ala Glu Ala
 145 150 155 160
 Ala Ser Ile Lys Ile Arg Thr Asp Ala Gly Phe Thr Leu Arg Trp Val
 165 170 175
 Arg Lys Thr Pro Trp Tyr Gln
 180

<210> 522
 <211> 80
 <212> PRT
 <213> Homo sapiens

<400> 522
 Asn His Leu Thr Ile Lys Trp Thr Thr Glu Asn Ser Pro Ser Cys Leu

462

1 5 10 15
Lys Ala Ser Pro Thr Val Val Ile Leu Gln Ala Ala Thr Cys Asn Leu
20 25 30
Asp Val Val Ser Thr Cys Ser Ala Gly Tyr Asp Ser Cys Ile Leu Gly
35 40 45
Leu Ala Phe Phe Cys Val Ile Asn Tyr Gly Tyr Pro Leu Asn Arg His
50 55 60
Leu Met Lys His Cys Thr Asn Cys His Ser Phe Asp Asp Thr Trp Glu
65 70 75 80

<210> 523
<211> 41
<212> PRT
<213> Homo sapiens

<400> 523
Pro Asn Gln Trp Leu Cys Ser Thr Gln Cys Pro Ser Gly Glu Thr Glu
1 5 10 15
Gly Gln Arg Gly Glu Gly Thr Cys Pro Arg Ser His Gly Asp Gly Thr
20 25 30
Pro Arg Ala Gly Pro Leu Val Arg Ala
35 40

<210> 524
<211> 374
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (76)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (77)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (78)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 524

Glu	Gly	Gln	Ser	Ser	Ala	Leu	Ala	Gly	Gln	Gly	Ala	Ala	Gln	Arg	Ala	1	5	10	15
Gly	Asp	Pro	Gly	Ala	Ala	Arg	Ala	Arg	Pro	Arg	Leu	Arg	Ser	Gly	Ser	20	25	30	
Gln	Arg	Gln	Pro	Gly	Ala	His	Gly	Pro	Ser	Ala	His	Gly	Ser	Thr	Met	35	40	45	
Pro	Ala	Leu	Leu	Glu	Arg	Pro	Lys	Leu	Ser	Asn	Ala	Met	Ala	Arg	Ala	50	55	60	
Leu	His	Arg	His	Ile	Met	Met	Glu	Arg	Glu	Arg	Xaa	Xaa	Xaa	Glu	Glu	65	70	75	80
Glu	Glu	Val	Asp	Lys	Met	Met	Glu	Gln	Lys	Met	Lys	Glu	Glu	Gln	Glu	85	90	95	
Arg	Arg	Lys	Lys	Lys	Glu	Met	Glu	Glu	Arg	Met	Ser	Leu	Glu	Glu	Thr	100	105	110	
Lys	Glu	Gln	Ile	Leu	Lys	Leu	Glu	Glu	Lys	Leu	Leu	Ala	Leu	Gln	Glu	115	120	125	
Glu	Lys	His	Gln	Leu	Phe	Leu	Gln	Leu	Lys	Lys	Val	Leu	His	Glu	Glu	130	135	140	
Glu	Lys	Arg	Arg	Arg	Lys	Glu	Gln	Ser	Asp	Leu	Thr	Thr	Leu	Thr	Ser	145	150	155	160
Ala	Ala	Tyr	Gln	Gln	Ser	Leu	Thr	Val	His	Thr	Gly	Thr	His	Leu	Leu	165	170	175	
Ser	Met	Gln	Gly	Ser	Pro	Gly	Gly	His	Asn	Arg	Pro	Gly	Thr	Leu	Met	180	185	190	
Ala	Ala	Asp	Arg	Ala	Lys	Gln	Met	Phe	Gly	Pro	Gln	Val	Leu	Thr	Thr	195	200	205	
Arg	His	Tyr	Val	Gly	Ser	Ala	Ala	Ala	Phe	Ala	Gly	Thr	Pro	Glu	His	210	215	220	
Gly	Gln	Phe	Gln	Gly	Ser	Pro	Gly	Gly	Ala	Tyr	Gly	Thr	Ala	Gln	Pro	225	230	235	240

Pro Pro His Tyr Gly Pro Thr Gln Pro Ala Tyr Ser Pro Ser Gln Gln
 245 250 255
 Leu Arg Ala Pro Ser Ala Phe Pro Ala Val Gln Tyr Leu Ser Gln Pro
 260 265 270
 Gln Pro Gln Pro Tyr Ala Val His Gly His Phe Gln Pro Thr Gln Thr
 275 280 285
 Gly Phe Leu Gln Pro Gly Gly Ala Leu Ser Leu Gln Lys Gln Met Glu
 290 295 300
 His Ala Asn Gln Gln Thr Gly Phe Ser Asp Ser Ser Ser Leu Arg Pro
 305 310 315 320
 Met His Pro Gln Ala Leu His Pro Ala Pro Gly Leu Leu Ala Ser Pro
 325 330 335
 Gln Leu Pro Val Gln Met Gln Pro Ala Gly Lys Ser Gly Phe Ala Ala
 340 345 350
 Thr Ser Gln Pro Gly Pro Arg Leu Pro Phe Ile Gln His Ser Gln Asn
 355 360 365
 Pro Arg Phe Tyr His Lys
 370

<210> 525
 <211> 100
 <212> PRT
 <213> Homo sapiens

<400> 525
 Gly Ser His Cys Tyr Tyr Phe Asn Glu Glu His Glu Thr Trp Val Tyr
 1 5 10 15
 Ala Asp Leu Tyr Cys Gln Asn Met Asn Ser Gly Asn Leu Val Ser Val
 20 25 30
 Leu Thr Gln Ala Glu Gly Ala Phe Val Ala Ser Leu Ile Lys Glu Ser
 35 40 45
 Gly Thr Lys Asp Ser Asn Val Trp Ile Gly Leu His Asp Pro His Arg
 50 55 60
 Ile Ser Leu Leu His Leu Leu Pro Pro Asp Tyr Gln Val Pro Glu Gly
 65 70 75 80
 Leu Met Ser Gly Thr Ser Ser Ile Ser Phe Tyr Tyr Ile Met Ile Lys

465

85 90 95

Ala Thr Ser Leu
100

<210> 526
<211> 104
<212> PRT
<213> Homo sapiens

<400> 526
Arg Leu His Thr Met Asp Ser Phe Ser Gln Asp Val Lys Thr Arg Leu
1 5 10 15
Leu Ile Met Ile Arg Leu Leu Pro Pro Phe Asn Leu Ser Leu Leu Met
20 25 30
Pro Ala Ser Phe Ala Trp Gln Asp Asp Ala Val Ile Ser Ile Ser Gln
35 40 45
Glu Val Ala Ser Glu Gly Asn Leu Thr Glu Tyr Gln Ile Tyr Leu Val
50 55 60
Asn Pro Asn Val Leu His Lys Ile Arg Asp Pro Leu Val His Pro Val
65 70 75 80
Thr Asp Ile Ser Ser Ile Phe Asn Thr Ala Val Cys Ser Asn Val Gln
85 90 95
Trp Ser Phe Ser Glu Leu Asp Phe
100

<210> 527
<211> 123
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (48)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (64)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (81)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (99)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (106)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (108)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 527

Phe	Pro	Ser	Ile	Ser	Arg	Ala	Val	Asp	Asp	Glu	Ile	Glu	Ala	Asn	Leu
1				5					10					15	

Glu	Glu	Phe	Asp	Ile	Ser	Glu	Asp	Asp	Ile	Asp	Asp	Gly	Phe	Arg	Arg
			20					25					30		

Leu	Phe	Ala	Gln	Leu	Ala	Gly	Glu	Asp	Ala	Glu	Ile	Ser	Ala	Phe	Xaa
		35					40					45			

Leu	Gln	Thr	Ile	Leu	Arg	Arg	Val	Leu	Ala	Lys	Arg	Gln	Asp	Ile	Xaa
	50					55					60				

Ser	Asp	Gly	Phe	Ser	Ile	Glu	Thr	Cys	Lys	Ile	Met	Val	Asp	Met	Leu
65					70					75				80	

Xaa	Ser	Asp	Gly	Ser	Gly	Lys	Leu	Gly	Leu	Lys	Glu	Phe	Tyr	Ile	Leu
			85						90					95	

Trp	Thr	Xaa	Ile	Gln	Lys	Tyr	Gln	Val	Xaa	Ser	Xaa	Lys	Cys	Gly	Trp
			100					105						110	

Ile	Cys	Val	Gly	Lys	His	Ser	Val	His	Met	Leu
		115						120		

<210> 528

<211> 428

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (117)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (124)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (258)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 528

Gly Arg Met Gly Thr Pro Xaa Lys Pro Met Ala Met Arg Leu Ile Leu

1

5

10

15

Phe Phe Gly Ala Leu Phe Gly His Ile Tyr Cys Leu Glu Thr Phe Val

20

25

30

Gly Asp Gln Val Leu Glu Ile Val Pro Ser Asn Glu Glu Gln Ile Lys

35

40

45

Asn Leu Leu Gln Leu Glu Ala Gln Glu His Leu Gln Leu Asp Phe Trp

50

55

60

Lys Ser Pro Thr Thr Pro Gly Glu Thr Ala His Val Arg Val Pro Phe

65

70

75

80

Val Asn Val Gln Ala Val Lys Val Phe Leu Glu Ser Gln Gly Ile Ala

85

90

95

Tyr Ser Ile Met Ile Glu Asp Val Gln Val Leu Leu Asp Lys Glu Asn

100

105

110

Glu Glu Met Leu Xaa Asn Arg Arg Arg Glu Arg Xaa Val Asn Phe Asn

115

120

125

Phe Gly Ala Tyr His Thr Leu Glu Glu Ile Ser Gln Glu Met Asp Asn

130

135

140

Leu Val Ala Glu His Pro Gly Leu Val Ser Lys Val Asn Ile Gly Ser

145

150

155

160

Ser Phe Glu Asn Arg Pro Met Asn Val Leu Lys Phe Ser Thr Gly Gly
 165 170 175
 Asp Lys Pro Ala Ile Trp Leu Asp Ala Gly Ile His Ala Arg Glu Trp
 180 185 190
 Val Thr Gln Ala Thr Ala Leu Trp Thr Ala Asn Lys Ile Val Ser Asp
 195 200 205
 Tyr Gly Lys Asp Pro Ser Ile Thr Ser Ile Leu Asp Ala Leu Asp Ile
 210 215 220
 Phe Leu Leu Pro Val Thr Asn Pro Asp Gly Tyr Val Phe Ser Gln Thr
 225 230 235 240
 Lys Asn Arg Met Trp Arg Lys Thr Arg Ser Lys Val Ser Gly Ser Leu
 245 250 255
 Cys Xaa Gly Val Asp Pro Asn Arg Asn Trp Asp Ala Gly Phe Gly Gly
 260 265 270
 Pro Gly Ala Ser Ser Asn Pro Cys Ser Asp Ser Tyr His Gly Pro Ser
 275 280 285
 Ala Asn Ser Glu Val Glu Val Lys Ser Ile Val Asp Phe Ile Lys Ser
 290 295 300
 His Gly Lys Val Lys Ala Phe Ile Thr Leu His Ser Tyr Ser Gln Leu
 305 310 315 320
 Leu Met Phe Pro Tyr Gly Tyr Lys Cys Thr Lys Leu Asp Asp Phe Asp
 325 330 335
 Glu Leu Ser Glu Val Ala Gln Lys Ala Ala Gln Ser Leu Arg Ser Leu
 340 345 350
 His Gly Thr Lys Tyr Lys Val Gly Pro Ile Cys Ser Val Ile Tyr Gln
 355 360 365
 Ala Ser Gly Gly Ser Ile Asp Trp Ser Tyr Asp Tyr Gly Ile Lys Tyr
 370 375 380
 Ser Phe Ala Phe Glu Leu Arg Asp Thr Gly Arg Tyr Gly Phe Leu Leu
 385 390 395 400
 Pro Ala Arg Gln Ile Leu Pro Thr Ala Glu Glu Thr Trp Leu Gly Leu
 405 410 415
 Lys Ala Ile Met Glu His Val Arg Asp His Pro Tyr
 420 425

<210> 529

<211> 192

<212> PRT

<213> Homo sapiens

<400> 529

Ser Leu Thr Leu Ser Leu Val Leu Leu Gly Ser Ser Trp Gly Cys Gly
 1 5 10 15

Ile Pro Ala Ile Lys Pro Ala Leu Ser Phe Ser Gln Arg Ile Val Asn
 20 25 30

Gly Glu Asn Ala Val Leu Gly Ser Trp Pro Trp Gln Val Ser Leu Gln
 35 40 45

Asp Ser Ser Gly Phe His Phe Cys Gly Gly Ser Leu Ile Ser Gln Ser
 50 55 60

Trp Val Val Thr Ala Ala His Cys Asn Val Ser Pro Gly Arg His Phe
 65 70 75 80

Val Val Leu Gly Glu Tyr Asp Arg Ser Ser Asn Ala Glu Pro Leu Gln
 85 90 95

Val Leu Ser Val Ser Arg Ala Ile Thr His Pro Ser Trp Asn Ser Thr
 100 105 110

Thr Met Asn Asn Asp Val Thr Leu Leu Lys Leu Ala Ser Pro Ala Gln
 115 120 125

Tyr Thr Thr Arg Ile Ser Pro Val Cys Leu Ala Ser Ser Asn Glu Ala
 130 135 140

Leu Thr Glu Gly Leu Thr Cys Val Thr Thr Gly Trp Gly Arg Leu Ser
 145 150 155 160

Gly Val Gly Asn Val Thr Pro Ala His Leu Gln Gln Val Ala Leu Pro
 165 170 175

Leu Val Thr Val Asn Gln Cys Arg Gln Tyr Trp Gly Ser Ser Tyr His
 180 185 190

<210> 530

Gly	Gln	Ser	Thr	Ala	Ser	Pro	Ala	Phe	Ser	Ala	Pro	Gln	Pro	Arg	1	5	10	15
Ala	Leu	Ser	Phe	Pro	Ala	Leu	Pro	Cys	Leu	Ala	Phe	Gln	Cys	Ser	Ser	20	25	30
Phe	Cys	Glu	Met	Thr	Leu	Lys	Ala	Ser	Glu	Gly	Glu	Ser	Gly	Gly	Ser	35	40	45
Met	His	Thr	Ala	Leu	Ser	Asp	Leu	Tyr	Leu	Glu	His	Leu	Leu	Gln	Lys	50	55	60
Arg	Ser	Arg	Pro	Glu	Ala	Val	Ser	His	Pro	Leu	Asn	Thr	Val	Thr	Glu	65	70	75
Asp	Met	Tyr	Thr	Asn	Gly	Ser	Pro	Ala	Pro	Gly	Ser	Pro	Ala	Gln	Val	85	90	95
Lys	Gly	Gln	Glu	Val	Arg	Lys	Val	Arg	Leu	Ile	Gln	Phe	Glu	Lys	Val	100	105	110
Thr	Glu	Glu	Pro	Met	Gly	Ile	Thr	Leu	Lys	Leu	Asn	Glu	Lys	Gln	Ser	115	120	125
Cys	Thr	Val	Ala	Arg	Ile	Leu	His	Gly	Gly	Met	Ile	His	Arg	Gln	Gly	130	135	140
Ser	Leu	His	Val	Gly	Asp	Glu	Ile	Leu	Glu	Ile	Asn	Gly	Thr	Asn	Val	145	150	155
Thr	Asn	His	Ser	Val	Asp	Gln	Leu	Gln	Lys	Ala	Met	Lys	Glu	Thr	Lys	165	170	175
Gly	Met	Ile	Ser	Leu	Lys	Val	Ile	Pro	Asn	Gln	Gln	Ser	Arg	Leu	Pro	180	185	190
Ala	Leu	Gln	Met	Phe	Met	Arg	Ala	Gln	Phe	Asp	Tyr	Asp	Pro	Lys	Lys	195	200	205
Asp	Asn	Leu	Ile	Pro	Cys	Lys	Glu	Ala	Gly	Leu	Lys	Phe	Ala	Thr	Gly	210	215	220
Asp	Ile	Ile	Gln	Ile	Ile	Asn	Lys	Asp	Asp	Ser	Asn	Trp	Trp	Gln	Gly	225	230	235
Arg	Val	Glu	Gly	Ser	Ser	Lys	Glu	Ser	Ala	Gly	Leu	Ile	Pro	Ser	Pro	240		

	245		250		255										
Glu	Leu	Gln	Glu	Trp	Arg	Val	Ala	Ser	Met	Ala	Gln	Ser	Ala	Pro	Ser
		260						265					270		
Glu	Ala	Arg	Ala	Ala	Val	Pro	Leu	Gly	Arg	Arg	Arg	Ser	Thr	Lys	Thr
		275					280					285			
Asn	Ile	Trp	Pro	Ser	Thr	Ala	Arg	Phe	Leu	Ile	Ser	Trp	Met	Leu	Phe
	290						295				300				
Pro	Thr	Arg	Lys	Ser	Phe	Gly	Ser	Leu	His	Ser	Arg	Gly	Arg	Pro	Trp
305					310					315				320	

Cys

<210> 531
 <211> 390
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (3)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (84)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 531
 Gln Arg Xaa Ser Gly Thr Phe Thr Met Gly Arg Lys Ser Leu Tyr Leu
 1 5 10 15

Leu Ile Val Gly Ile Leu Ile Ala Tyr Tyr Ile Tyr Thr Pro Leu Pro
 20 25 30

Asp Asn Val Glu Glu Pro Trp Arg Met Met Trp Ile Asn Ala His Leu
 35 40 45

Lys Thr Ile Gln Asn Leu Val Val Gly Ser Phe Asp Glu Val Pro Pro
 50 55 60

Thr Ser Asp Glu Asn Val Thr Val Thr Glu Thr Lys Phe Asn Asn Ile
 65 70 75 80

Leu Val Arg Xaa Tyr Val Pro Lys Arg Lys Ser Glu Ala Leu Arg Arg

	85		90		95
Gly Leu Phe Tyr Ile His Gly Gly Gly Trp Cys Val Gly Ser Ala Ala	100		105		110
Leu Ser Gly Tyr Asp Leu Leu Ser Arg Trp Thr Ala Asp Arg Leu Asp	115		120		125
Ala Val Val Val Ser Thr Asn Tyr Arg Leu Ala Pro Lys Tyr His Phe	130		135		140
Pro Ile Gln Phe Glu Asp Val Tyr Asn Ala Leu Arg Trp Phe Leu Arg	145		150		155
Lys Lys Val Leu Ala Lys Tyr Gly Val Asn Pro Glu Arg Ile Gly Ile	165		170		175
Ser Gly Asp Ser Ala Gly Gly Asn Leu Ala Ala Ala Val Thr Gln Gln	180		185		190
Leu Leu Asp Asp Pro Asp Val Lys Ile Lys Leu Lys Ile Gln Ser Leu	195		200		205
Ile Tyr Pro Ala Leu Gln Pro Leu Asp Val Asp Leu Pro Ser Tyr Gln	210		215		220
Glu Asn Ser Asn Phe Leu Phe Leu Ser Lys Ser Leu Met Val Arg Phe	225		230		235
Trp Ser Glu Tyr Phe Thr Thr Asp Arg Ser Leu Glu Lys Ala Met Leu	245		250		255
Ser Arg Gln His Val Pro Val Glu Ser Ser His Leu Phe Lys Phe Ile	260		265		270
Asn Trp Ser Ser Leu Leu Pro Glu Arg Phe Ile Lys Gly His Val Tyr	275		280		285
Asn Asn Pro Asn Tyr Gly Ser Ser Glu Leu Ala Lys Lys Tyr Pro Gly	290		295		300
Phe Leu Asp Val Arg Ala Ala Pro Leu Leu Ala Asp Asp Asn Lys Leu	305		310		315
Arg Gly Leu Pro Leu Thr Tyr Val Ile Thr Cys Gln Tyr Asp Leu Leu	325		330		335
Arg Asp Asp Gly Leu Met Tyr Val Thr Arg Leu Arg Asn Thr Gly Val	340		345		350
Gln Val Thr His Asn His Val Glu Asp Gly Phe His Gly Ala Phe Ser					

355 360 365
Phe Leu Gly Leu Lys Ile Ser His Arg Leu Ile Asn Gln Tyr Ile Glu
370 375 380
Trp Leu Lys Glu Asn Leu
385 390

<210> 532
<211> 261
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (8)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (242)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (245)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (256)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (260)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 532
Gly Val Gly Tyr Asn Thr Val Xaa Ser Pro Pro Ala Pro Ser Phe Cys
1 5 10 15

Asn Met Gly Lys Asn Lys Leu Leu His Pro Ser Leu Val Leu Leu Leu
20 25 30

Leu Val Leu Leu Pro Thr Asp Ala Ser Val Ser Gly Lys Pro Gln Tyr
35 40 45

Met Val Leu Val Pro Ser Leu Leu His Thr Glu Thr Thr Glu Lys Gly

50		55		60
Cys Val Leu Leu Ser Tyr Leu Asn Glu Thr Val Thr Val Ser Ala Ser				
65		70		75 80
Leu Glu Ser Val Arg Gly Asn Arg Ser Leu Phe Thr Asp Leu Glu Ala				
	85		90	95
Glu Asn Asp Val Leu His Cys Val Ala Phe Ala Val Pro Lys Ser Ser				
	100		105	110
Ser Asn Glu Glu Val Met Phe Leu Thr Val Gln Val Lys Gly Pro Thr				
	115		120	125
Gln Glu Phe Lys Lys Arg Thr Thr Val Met Val Lys Asn Glu Asp Ser				
	130		135	140
Leu Val Phe Val Gln Thr Asp Lys Ser Ile Tyr Lys Pro Gly Gln Thr				
	145		150	155 160
Val Lys Phe Arg Val Val Ser Met Asp Glu Asn Phe His Pro Leu Asn				
	165		170	175
Glu Leu Ile Pro Leu Val Tyr Ile Gln Asp Pro Lys Gly Asn Arg Ile				
	180		185	190
Ala Gln Trp Gln Ser Phe Gln Leu Glu Gly Gly Leu Lys Gln Phe Ser				
	195		200	205
Phe Pro Leu Ser Ser Glu Pro Phe Gln Gly Ser Leu Gln Gly Gly Gly				
	210		215	220
Thr Glu Glu Ile Arg Trp Glu Gly Thr Glu His Pro Phe His Arg Gly				
	225		230	235 240
Arg Xaa Cys Cys Xaa Pro Lys Phe Gly Ser Tyr Lys Leu Thr Val Xaa				
	245		250	255
Lys Gly Asn Xaa His				
	260			

<210> 533

<211> 73

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 533

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Asn Arg Ser Val Gln Ser Tyr Phe Phe Leu Thr Leu Asn Phe Pro Ser
 1              5              10              15

Arg Glu Tyr Thr Ile Trp Leu Xaa Gly Arg Gly Ser Pro Glu Glu Xaa
              20              25              30

Gly Phe Ala Leu Arg Gly Arg Ala Ser Leu Asp Phe Ala Ala Ser Asn
              35              40              45

Phe Ser Arg Gly Val Glu Gly Gly Ala Leu Gly Gly Pro His Ser Leu
              50              55              60

Ser Gly Val Pro Ala Arg Val Ser Phe
              65              70

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<210> 534

<211> 150

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 534

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Xaa Arg Lys Gln Gln Arg Arg Leu Tyr Pro Val Ser Pro Pro Pro Ser
 1              5              10              15

Leu Leu Arg Leu Pro Ser Arg Ala Pro Tyr Thr Pro Gln Ser Arg Ser
              20              25              30

Arg His Val Pro Glu Thr Arg Arg Arg Glu Pro Cys Gly Gly Asp Arg
              35              40              45

Arg Gly Glu Ala Gly His Ala Glu Lys Glu Gly Ile Leu Pro Glu Arg
              50              55              60

Ala Glu Glu Ala Lys Leu Lys Ala Lys Tyr Pro Ser Leu Gly Gln Lys
              65              70              75              80

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Pro Gly Gly Ser Asp Phe Leu Met Lys Arg Leu Gln Lys Gly Gln Lys
 85 90 95

Tyr Phe Asp Ser Gly Asp Tyr Asn Met Ala Lys Ala Lys Met Lys Asn
 100 105 110

Lys Gln Leu Pro Ser Ala Gly Pro Asp Lys Asn Leu Val Thr Gly Asp
 115 120 125

His Ile Pro Thr Pro Gln Asp Leu Pro Gln Arg Lys Ser Ser Leu Val
 130 135 140

Thr Ser Lys Leu Ala Gly
 145 150

<210> 535

<211> 67

<212> PRT

<213> Homo sapiens

<400> 535

Gln Ile Val Lys Ile Glu Ala Ile Ala Gln His Arg Phe Ser Ile Asn
 1 5 10 15

Ala Val Asn Leu Pro Tyr Leu Arg Lys Asn Ser Leu Thr Leu Glu Tyr
 20 25 30

Cys Ile Glu Leu Ser Tyr Thr His Lys Thr Phe Ser Leu Val Asn Gln
 35 40 45

Asp Pro Val Arg Val Ser Leu Glu Leu Phe Trp Asn Asn Ala Arg Ile
 50 55 60

Gln Thr Asp
 65

<210> 536

<211> 107

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (57)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (80)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (85)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (103)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 536

His Ala Ser Gly Arg Pro Pro Arg Cys Trp Arg Pro Ala Trp Arg Gly
1 5 10 15

Cys Ser Ser Thr Arg Arg Cys Ser Thr Pro Cys Ser Ala Gly Arg Cys
20 25 30

Arg Val Gly Arg Thr Gly Thr Gly Thr Thr Ala Ser Thr Pro Pro Cys
35 40 45

Cys Trp Ala Arg Cys Arg Cys Gly Xaa Asp Ala Pro Leu Val Gln Asp
50 55 60

Glu Asn Val Arg Gly Val Ile Thr Met Asn Glu Glu Tyr Glu Thr Xaa
65 70 75 80

Phe Leu Cys Asn Xaa Ser Gln Val His Lys Trp Asn Pro Glu Glu Ala
85 90 95

Val Arg Pro Ser Pro Arg Xaa Gly His Thr Ser
100 105

<210> 537

<211> 49

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 537

Asn Gln Ile Asn Phe Cys Leu Asn Gly Lys Tyr Thr Tyr Ile Cys Ile
1 5 10 15

478

Asp Thr Leu Pro Leu Tyr Met Phe Asn Ile His Thr Leu Lys His Ile
 20 25 30

Asn Thr Ser Val Ile Ile Xaa Trp Ser Leu Gln Tyr Ser Ile Lys Asp
 35 40 45

Lys

<210> 538

<211> 149

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (62)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (122)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (145)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 538

Ala Gln Ala Arg Val Pro Ala Thr Thr Ala Ser Pro Gly Gly Pro Ala
 1 5 10 15

Ile Phe Pro Pro Gln Thr Ser Pro Gln Gly Pro Glu Trp Lys Arg Pro
 20 25 30

Ser Asp Pro Pro Phe Gln Pro Ser Pro Pro Ser Gln Lys Leu Thr Gly
 35 40 45

Pro Ala Pro Thr Ser Ser Thr Ala Gly His Pro Pro Pro Xaa Ala Pro
 50 55 60

Leu Pro Thr Pro Arg Gly Thr Arg Arg Thr Ala Cys Pro Pro Ser Ala
 65 70 75 80

Leu Pro Ala Ala Pro Thr Pro Pro Ser Leu Ser Ala Pro Cys Thr Gln
 85 90 95

Ser Pro Ala Cys Leu Cys Ala Pro His Ser His Cys Pro Arg Arg Arg
 100 105 110

Arg Ser Arg Ser His Trp Cys Leu Arg Xaa Ala Leu Gly Glu Ala Val
 115 120 125

Leu Ser Ala Leu Leu Gln Arg Leu Gln Arg Pro Arg Asp His His Val
 130 135 140

Xaa Ala His Val Leu
 145

<210> 539

<211> 61

<212> PRT

<213> Homo sapiens

<400> 539

Glu Met Tyr Val Leu Leu Leu Ile Lys Gly Ile Val Glu Tyr Lys
 1 5 10 15

Arg Phe Phe Lys Leu Val Leu Ser Leu Ile Gly Phe Tyr Asn Pro His
 20 25 30

Phe Lys Glu Glu Met His Leu Thr Phe Asn Asn Leu Val Lys Lys Tyr
 35 40 45

Asn Val Ala Leu Pro Cys Ile Thr Phe Asn Tyr Cys Lys
 50 55 60

<210> 540

<211> 148

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (112)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 540

Gly Gly Gly Ala Gly Leu Gln Gly Leu Pro Gly Ala Arg Gly Gly Leu
 1 5 10 15

Gly Pro Gly Ser Arg Ala Ala Ser Ser Leu Leu Gly Arg Ala Ala Thr
 20 25 30

480

Gly Glu Val Leu Gly Ala Gly Gly Ser Pro Arg Ala Gly Val Thr Pro
 35 40 45
 Thr Phe Thr Ala Pro Lys Asn Thr Ser Arg Val Gly Gly Gly Gly His
 50 55 60
 Arg Ala Thr Ser Arg Ser Gly Phe Cys Pro Ser Ser Leu Phe Thr Arg
 65 70 75 80
 Arg Asn Phe Arg Pro Asp Val Phe Ser Gln Asn Arg Asn Thr Ser Gln
 85 90 95
 Gly Gln Thr Asp Arg Lys Arg Gly Cys Leu Ala Val Ala Pro His Xaa
 100 105 110
 Pro Thr Gly Phe Arg Ala Pro Glu Leu Ala Ala Ala Pro Ser Leu Glu
 115 120 125
 Gln Ser Phe Met Gln Arg Gly Cys Phe Leu Lys Leu Ser Val His Gly
 130 135 140
 Asp Phe Phe Phe
 145

<210> 541

<211> 30

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 541

Phe Tyr Phe Thr Ser Ile Leu Gln Val Glu Leu Xaa Gly Arg Val Val
 1 5 10 15

Ser Asn Pro Lys Leu Val Ile Pro Val Pro Arg Gly His His
 20 25 30

<210> 542

<211> 241

<212> PRT

<213> Homo sapiens

<400> 542

481

Glu Leu Leu Ala Leu Asp Gln Leu His Gly Ser Arg Arg Gln Leu Gln
 1 5 10 15
 Trp Leu Val Gly Glu Leu Gln Ala Ala Glu Asp Arg Gly Asp Lys Val
 20 25 30
 His Ile Ile Gly His Ile Pro Pro Gly His Cys Leu Lys Ser Trp Ser
 35 40 45
 Trp Asn Tyr Tyr Arg Ile Val Ala Arg Tyr Glu Asn Thr Leu Ala Ala
 50 55 60
 Gln Phe Phe Gly His Thr His Val Asp Glu Phe Glu Val Phe Tyr Asp
 65 70 75 80
 Glu Glu Thr Leu Ser Arg Pro Leu Ala Val Ala Phe Leu Ala Pro Ser
 85 90 95
 Ala Thr Thr Tyr Ile Gly Leu Asn Pro Gly Tyr Arg Val Tyr Gln Ile
 100 105 110
 Asp Gly Asn Tyr Ser Gly Ser Ser His Val Val Leu Asp His Glu Thr
 115 120 125
 Tyr Ile Leu Asn Leu Thr Gln Ala Asn Ile Pro Gly Ala Ile Pro His
 130 135 140
 Trp Gln Leu Leu Tyr Arg Ala Arg Glu Thr Tyr Gly Leu Pro Asn Thr
 145 150 155 160
 Leu Pro Thr Ala Trp His Asn Leu Val Tyr Arg Met Arg Gly Asp Met
 165 170 175
 Gln Leu Phe Gln Thr Phe Trp Phe Leu Tyr His Lys Gly His Pro Pro
 180 185 190
 Ser Glu Pro Cys Gly Thr Pro Cys Arg Leu Ala Thr Leu Cys Ala Gln
 195 200 205
 Leu Ser Ala Arg Ala Asp Ser Pro Ala Leu Cys Arg His Leu Met Pro
 210 215 220
 Asp Gly Ser Leu Pro Glu Ala Gln Ser Leu Trp Pro Arg Pro Leu Phe
 225 230 235 240
 Cys

<210> 543

482

<211> 89

<212> PRT

<213> Homo sapiens

<400> 543

Arg Asn Arg Lys Asn Thr Asp Gly His Gln Gln Phe Phe Ala Ile Val
 1 5 10 15

Gln Leu Ile Gly Thr Arg Lys Gln Ala Glu Asn Phe Ala Tyr Arg Leu
 20 25 30

Glu Leu Asn Gly His Arg Arg Arg Leu Thr Trp Glu Ala Thr Pro Arg
 35 40 45

Ser Ile His Glu Gly Ile Ala Thr Ala Ile Met Asn Ser Asp Cys Leu
 50 55 60

Val Phe Asp Thr Ser Ile Ala Gln Leu Phe Ala Glu Asn Gly Asn Leu
 65 70 75 80

Gly Ile Asn Val Thr Ile Ser Met Cys
 85

<210> 544

<211> 74

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (65)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 544

Gly Ile Gln Ala Ala Pro Gly Arg Gly Arg Leu Arg Leu Tyr Pro Gly
 1 5 10 15

Pro Arg Ser Pro Arg Asp Arg Gln Met Arg Ala Ala Gly Pro Gly His
 20 25 30

Met Ser Ser Ala Thr Asp Ala Thr Xaa Pro Ala Leu Asp Met Pro Asp
 35 40 45

Arg Val Ser Thr Arg Pro Trp Asp Trp Ser Pro Asp Ser Ala Cys Pro

50 55 60
 Xaa Leu Cys Phe Thr Pro Leu Val Ala Lys
 65 70

 <210> 545
 <211> 271
 <212> PRT
 <213> Homo sapiens

 <400> 545
 Arg Ser Ser Gln Lys Lys Ser Leu Met Ser Gly Tyr Arg Asn Phe Ala
 1 5 10 15

 Thr Thr Glu Cys Ile Val Arg Met Lys Leu Pro Cys Phe His Met Lys
 20 25 30

 Leu Thr Thr Phe Ser Gln Gly Pro Pro Ser Gln Thr Leu His Leu Gly
 35 40 45

 Cys Leu Thr Pro Phe Gln Val Gly Ser Val Gln Leu Tyr Gln Ser Arg
 50 55 60

 Ile Tyr Phe Lys Leu Gly Ser Asn Val Ser Phe Ser Cys Gly Gly Glu
 65 70 75 80

 Thr Arg Val Pro Leu Trp Leu Gln Ser Phe Arg Gly His Gly Lys Met
 85 90 95

 Leu Gln Arg Pro Gly Ala Leu Ser Cys Leu Pro Gly Arg Asn Glu Pro
 100 105 110

 Ala Pro Ala Lys His Gly Thr Ser Cys Ile Gly His Thr Arg Ala Pro
 115 120 125

 Ala Ile Asn Ala Ile Gln Val Pro Lys Pro Phe Ser Gly Pro Val Arg
 130 135 140

 Leu His Ser Ser Asn Pro Asn Leu Ser Thr Leu Asp Phe Gly Glu Glu
 145 150 155 160

 Lys Asn Tyr Ser Asp Gly Ser Glu Thr Ser Ser Glu Phe Ser Lys Met
 165 170 175

 Gln Glu Asp Leu Cys His Ile Ala His Lys Val Tyr Phe Thr Leu Arg
 180 185 190

 Ser Ala Phe Asn Ile Met Ser Ala Glu Arg Glu Lys Leu Lys Gln Leu
 195 200 205

Met Glu Gln Asp Ala Ser Ser Ser Pro Ser Ala Gln Val Ile Gly Leu
 210 215 220

Lys Asn Ala Leu Ser Ser Ala Leu Ala Gln Asn Thr Asp Leu Lys Glu
 225 230 235 240

Arg Leu Arg Arg Ile His Ala Glu Ser Leu Leu Leu Asp Ser Pro Ala
 245 250 255

Val Ala Lys Ser Gly Asp Asn Leu Gly Arg Gly Lys Leu Gln Arg
 260 265 270

<210> 546

<211> 301

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (215)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (292)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 546

Asp Pro Arg Val Arg Glu Asn Ala Arg Leu Phe His Pro Lys Leu Ile
 1 5 10 15

Ile Ala Gly Thr Ser Cys Tyr Ser Arg Asn Leu Glu Tyr Ala Arg Leu
 20 25 30

Arg Lys Ile Ala Asp Glu Asn Gly Ala Tyr Leu Met Ala Asp Met Ala
 35 40 45

His Ile Ser Gly Leu Val Ala Ala Gly Val Val Pro Ser Pro Phe Glu
 50 55 60

His Cys His Val Val Thr Thr Thr Thr His Lys Thr Leu Arg Gly Cys
 65 70 75 80

Arg Ala Gly Met Ile Phe Tyr Arg Lys Gly Val Lys Ser Val Asp Pro
 85 90 95

Lys Thr Gly Lys Glu Ile Leu Tyr Asn Leu Glu Ser Leu Ile Asn Ser
 100 105 110

Ala Val Phe Pro Gly Leu Gln Gly Gly Pro His Asn His Ala Ile Ala
 115 120 125
 Gly Val Ala Val Ala Leu Lys Gln Ala Met Thr Leu Glu Phe Lys Val
 130 135 140
 Tyr Gln His Gln Val Val Ala Asn Cys Arg Ala Leu Ser Glu Ala Leu
 145 150 155 160
 Thr Glu Leu Gly Tyr Lys Ile Val Thr Gly Gly Ser Asp Asn His Leu
 165 170 175
 Ile Leu Val Asp Leu Arg Ser Lys Gly Thr Asp Gly Gly Arg Ala Glu
 180 185 190
 Lys Val Leu Glu Ala Cys Ser Ile Ala Cys Asn Lys Asn Thr Cys Pro
 195 200 205
 Gly Asp Arg Ser Ala Leu Xaa Pro Ser Gly Leu Arg Leu Gly Thr Pro
 210 215 220
 Ala Leu Thr Ser Arg Gly Leu Leu Glu Lys Asp Phe Gln Lys Val Ala
 225 230 235 240
 His Phe Ile His Arg Gly Ile Glu Leu Thr Leu Gln Ile Gln Ser Asp
 245 250 255
 Thr Gly Val Arg Ala Thr Leu Lys Glu Phe Lys Glu Arg Leu Ala Gly
 260 265 270
 Asp Lys Tyr Gln Ala Ala Val Gln Ala Leu Arg Glu Glu Val Glu Ser
 275 280 285
 Phe Ala Ser Xaa Phe Pro Leu Pro Gly Leu Pro Asp Phe
 290 295 300

<210> 547

<211> 61

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (55)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 547

Glu Thr Ser Arg Thr Ser Gly Ser Cys Ser Trp Arg Ala Gly Ala Pro
1 5 10 15

Ala Pro Leu Leu Pro Thr His His Ile Leu Pro Ile Leu Leu Gln Gly
20 25 30

Pro Arg Leu Leu Ser Asn Ser Trp Asp Xaa Arg Pro Trp Arg Xaa Xaa
35 40 45

Pro Leu Leu Gly Ser Ala Xaa Arg Pro Pro Thr Leu Leu
50 55 60

<210> 548

<211> 92

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 548

Ala Gln Gly Phe Arg His Glu Xaa Xaa Leu Leu Val Gly Gly Leu Leu
1 5 10 15

<213> Homo sapiens

<223> Xaa equals any of the naturally occurring L-amino acids

<223> Xaa equals any of the naturally occurring L-amino acids

Gly Arg Gly Phe Lys Lys Asn Leu Phe Glu Met Ala Ile Asn Leu Ala
1 5 10 15

Lys Ser Gln His Leu Asp Ser Asp Gly Leu Ala Gln Ile Phe Met Gln
20 25 30

Tyr Gly Asp His Leu Tyr Ser Lys Gly Asn His Asp Gly Ala Val Gln
35 40 45

Gln Tyr Ile Arg Thr Ile Gly Lys Leu Glu Pro Ser Tyr Val Ile Arg
50 55 60

Lys Phe Leu Asp Ala Gln Arg Ile His Asn Leu Thr Ala Tyr Leu Gln
65 70 75 80

Thr Leu His Arg Gln Ser Leu Ala Asn Ala Asp His Thr Thr Leu Leu
85 90 95

Leu Asn Cys Tyr Thr Lys Leu Lys Asp Ser Ser Lys Leu Glu Glu Phe
 100 105 110
 Ile Lys Lys Lys Ser Glu Ser Glu Val His Phe Asp Val Glu Thr Ala
 115 120 125
 Ile Lys Val Leu Arg Gln Ala Gly Tyr Tyr Ser His Ala Leu Tyr Leu
 130 135 140
 Ala Glu Asn His Ala His His Glu Trp Tyr Leu Lys Ile Gln Leu Glu
 145 150 155 160
 Asp Ile Lys Asn Tyr Gln Glu Ala Leu Arg Tyr Ile Gly Lys Leu Pro
 165 170 175
 Phe Glu Gln Ala Glu Ser Asn Met Lys Arg Tyr Gly Lys Ile Leu Met
 180 185 190
 His His Xaa Pro Glu Gln Thr Thr Gln Leu Leu Lys Gly Leu Cys Thr
 195 200 205
 Asp Tyr Arg Pro Ser Leu Glu Gly Arg Ser Asp Arg Glu Ala Pro Gly
 210 215 220
 Cys Arg Ala Asn Ser Glu Glu Phe Ile Pro Ile Phe Ala Asn Asn Pro
 225 230 235 240
 Arg Glu Leu Lys Ala Phe Leu Glu His Met Ser Xaa Val Gln Pro Asp
 245 250 255
 Ser Pro Gln Gly Ile Tyr Asp Thr Leu Leu Glu Leu Arg Leu Gln Asn
 260 265 270
 Trp Ala His Glu Lys Asp Pro Gln Val Lys Glu Lys Leu His Ala Glu
 275 280 285
 Ala Ile Ser Leu Leu Lys Ser Gly Arg Phe Cys Asp Val Phe Asp Lys
 290 295 300
 Ala Leu Val Leu Cys Gln Met His Asp Phe Gln Asp Gly Val Leu Tyr
 305 310 315 320
 Leu Tyr Glu Gln Gly Lys Leu Phe Gln Gln Ile Met His Tyr His Met
 325 330 335
 Gln His Glu Gln Tyr Arg Gln Ser Ser Ala Cys Val Ser Ala Met Gly
 340 345 350
 Ser Arg Thr Pro Pro Cys Gly Ser Arg Pro Ser Ala Thr Ser Leu Ala
 355 360 365

Arg Arg Arg Thr Ala Arg Ser Met Trp Gln Leu Ser Ser Ser Ile Ser
 370 375 380

Arg Thr Arg Thr Ser Cys His Leu Phe
 385 390

<210> 550

<211> 786

<212> PRT

<213> Homo sapiens

<400> 550

Arg Ser His Ser Val Tyr Ile Thr Ser Thr Val Leu Ala Pro Asn Val
 1 5 10 15

Leu Cys Val Leu Leu Leu Trp Leu Asn Pro Gln Ala Leu Val Gly Ala
 20 25 30

Gln Gly Gly Arg Met Ser Gln Trp Tyr Glu Leu Gln Gln Leu Asp Ser
 35 40 45

Lys Phe Leu Glu Gln Val His Gln Leu Tyr Asp Asp Ser Phe Pro Met
 50 55 60

Glu Ile Arg Gln Tyr Leu Ala Gln Trp Leu Glu Lys Gln Asp Trp Glu
 65 70 75 80

His Ala Ala Asn Asp Val Ser Phe Ala Thr Ile Arg Phe His Asp Leu
 85 90 95

Leu Ser Gln Leu Asp Asp Gln Tyr Ser Arg Phe Ser Leu Glu Asn Asn
 100 105 110

Phe Leu Leu Gln His Asn Ile Arg Lys Ser Lys Arg Asn Leu Gln Asp
 115 120 125

Asn Phe Gln Glu Asp Pro Ile Gln Met Ser Met Ile Ile Tyr Ser Cys
 130 135 140

Leu Lys Glu Glu Arg Lys Ile Leu Glu Asn Ala Gln Arg Phe Asn Gln
 145 150 155 160

Ala Gln Ser Gly Asn Ile Gln Ser Thr Val Met Leu Asp Lys Gln Lys
 165 170 175

Glu Leu Asp Ser Lys Val Arg Asn Val Lys Asp Lys Val Met Cys Ile
 180 185 190

Glu His Glu Ile Lys Ser Leu Glu Asp Leu Gln Asp Glu Tyr Asp Phe
 195 200 205
 Lys Cys Lys Thr Leu Gln Asn Arg Glu His Glu Thr Asn Gly Val Ala
 210 215 220
 Lys Ser Asp Gln Lys Gln Glu Gln Leu Leu Lys Lys Met Tyr Leu
 225 230 235 240
 Met Leu Asp Asn Lys Arg Lys Glu Val Val His Lys Ile Ile Glu Leu
 245 250 255
 Leu Asn Val Thr Glu Leu Thr Gln Asn Ala Leu Ile Asn Asp Glu Leu
 260 265 270
 Val Glu Trp Lys Arg Arg Gln Gln Ser Ala Cys Ile Gly Gly Pro Pro
 275 280 285
 Asn Ala Cys Leu Asp Gln Leu Gln Asn Trp Phe Thr Ile Val Ala Glu
 290 295 300
 Ser Leu Gln Gln Val Arg Gln Gln Leu Lys Lys Leu Glu Glu Leu Glu
 305 310 315 320
 Gln Lys Tyr Thr Tyr Glu His Asp Pro Ile Thr Lys Asn Lys Gln Val
 325 330 335
 Leu Trp Asp Arg Thr Phe Ser Leu Phe Gln Gln Leu Ile Gln Ser Ser
 340 345 350
 Phe Val Val Glu Arg Gln Pro Cys Met Pro Thr His Pro Gln Arg Pro
 355 360 365
 Leu Val Leu Lys Thr Gly Val Gln Phe Thr Val Lys Leu Arg Leu Leu
 370 375 380
 Val Lys Leu Gln Glu Leu Asn Tyr Asn Leu Lys Val Lys Val Leu Phe
 385 390 395 400
 Asp Lys Asp Val Asn Glu Arg Asn Thr Val Lys Gly Phe Arg Lys Phe
 405 410 415
 Asn Ile Leu Gly Thr His Thr Lys Val Met Asn Met Glu Glu Ser Thr
 420 425 430
 Asn Gly Ser Leu Ala Ala Glu Phe Arg His Leu Gln Leu Lys Glu Gln
 435 440 445
 Lys Asn Ala Gly Thr Arg Thr Asn Glu Gly Pro Leu Ile Val Thr Glu
 450 455 460

Glu Leu His Ser Leu Ser Phe Glu Thr Gln Leu Cys Gln Pro Gly Leu
 465 470 475 480
 Val Ile Asp Leu Glu Thr Thr Ser Leu Pro Val Val Val Ile Ser Asn
 485 490 495
 Val Ser Gln Leu Pro Ser Gly Trp Ala Ser Ile Leu Trp Tyr Asn Met
 500 505 510
 Leu Val Ala Glu Pro Arg Asn Leu Ser Phe Phe Leu Thr Pro Pro Cys
 515 520 525
 Ala Arg Trp Ala Gln Leu Ser Glu Val Leu Ser Trp Gln Phe Ser Ser
 530 535 540
 Val Thr Lys Arg Gly Leu Asn Val Asp Gln Leu Asn Met Leu Gly Glu
 545 550 555 560
 Lys Leu Leu Gly Pro Asn Ala Ser Pro Asp Gly Leu Ile Pro Trp Thr
 565 570 575
 Arg Phe Cys Lys Glu Asn Ile Asn Asp Lys Asn Phe Pro Phe Trp Leu
 580 585 590
 Trp Ile Glu Ser Ile Leu Glu Leu Ile Lys Lys His Leu Leu Pro Leu
 595 600 605
 Trp Asn Asp Gly Cys Ile Met Gly Phe Ile Ser Lys Glu Arg Glu Arg
 610 615 620
 Ala Leu Leu Lys Asp Gln Gln Pro Gly Thr Phe Leu Leu Arg Phe Ser
 625 630 635 640
 Glu Ser Ser Arg Glu Gly Ala Ile Thr Phe Thr Trp Val Glu Arg Ser
 645 650 655
 Gln Asn Gly Gly Glu Pro Asp Phe His Ala Val Glu Pro Tyr Thr Lys
 660 665 670
 Lys Glu Leu Ser Ala Val Thr Phe Pro Asp Ile Ile Arg Asn Tyr Lys
 675 680 685
 Val Met Ala Ala Glu Asn Ile Pro Glu Asn Pro Leu Lys Tyr Leu Tyr
 690 695 700
 Pro Asn Ile Asp Lys Asp His Ala Phe Gly Lys Tyr Tyr Ser Arg Pro
 705 710 715 720
 Lys Glu Ala Pro Glu Pro Met Glu Leu Asp Gly Pro Lys Gly Thr Gly
 725 730 735

Tyr Ile Lys Thr Glu Leu Ile Ser Val Ser Glu Val His Pro Ser Arg
 740 745 750

Leu Gln Thr Thr Asp Asn Leu Leu Pro Met Ser Pro Glu Glu Phe Asp
 755 760 765

Glu Val Ser Arg Ile Val Gly Ser Val Glu Phe Asp Ser Met Met Asn
 770 775 780

Thr Val
 785

<210> 551

<211> 68

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 551

Gly Thr Ser Leu Arg Glu Ser Gln Arg Ser Leu Trp Gly Val Arg Leu
 1 5 10 15

Arg Gly Cys Pro Arg Thr Glu Pro Arg Ser Ala Ser Gly Glu Pro Arg
 20 25 30

Glu Val Gly Val Gly Pro Ala Ala Gly Gln Glu Pro Cys Xaa Leu Glu
 35 40 45

Asp Pro Pro Lys Arg Lys Gln Thr Leu Phe Phe Phe Ile Gln Pro Gln
 50 55 60

Ile Ala Arg Ala
 65

<210> 552

<211> 511

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (45)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (46)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (412)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (476)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (492)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (504)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 552
 Asp Pro Gly Val Pro Gly Pro Glu Ala Gly His Glu Arg Ala Ala Glu
 1 5 10 15

Arg Gly Glu Gly Val Pro Glu Gln Arg Gln Leu Arg Gly Glu Leu His
 20 25 30

Pro Glu Tyr His Leu His Arg Gly Ala Gly Ala Xaa Xaa Xaa Ala Thr
 35 40 45

Leu Val Val Gly Gly Asp Gly Arg Phe Tyr Met Lys Glu Ala Ile Gln
 50 55 60

Leu Ile Ala Arg Ile Ala Ala Ala Asn Gly Ile Gly Arg Leu Val Ile
 65 70 75 80

Gly Gln Asn Gly Ile Leu Ser Thr Pro Ala Val Ser Cys Ile Ile Arg
 85 90 95

Lys Ile Lys Ala Ile Gly Gly Ile Ile Leu Thr Ala Ser His Asn Pro

100	105	110
Gly Gly Pro Asn Gly Asp Phe Gly Ile Lys Phe Asn Ile Ser Asn Gly		
115	120	125
Gly Pro Ala Pro Glu Ala Ile Thr Asp Lys Ile Phe Gln Ile Ser Lys		
130	135	140
Thr Ile Glu Glu Tyr Ala Val Cys Pro Asp Leu Lys Val Asp Leu Gly		
145	150	155
		160
Val Leu Gly Lys Gln Gln Phe Asp Leu Glu Asn Lys Phe Lys Pro Phe		
165	170	175
Thr Val Glu Ile Val Asp Ser Val Glu Ala Tyr Ala Thr Met Leu Arg		
180	185	190
Ser Ile Phe Asp Phe Ser Ala Leu Lys Glu Leu Leu Ser Gly Pro Asn		
195	200	205
Arg Leu Lys Ile Arg Ile Asp Ala Met His Gly Val Val Gly Pro Tyr		
210	215	220
Val Lys Lys Ile Leu Cys Glu Glu Leu Gly Ala Pro Ala Asn Ser Ala		
225	230	235
		240
Val Asn Cys Val Pro Leu Glu Asp Phe Gly Gly His His Pro Asp Pro		
245	250	255
Asn Leu Thr Tyr Ala Ala Asp Leu Val Glu Thr Met Lys Ser Gly Glu		
260	265	270
His Asp Phe Gly Ala Ala Phe Asp Gly Asp Gly Asp Arg Asn Met Ile		
275	280	285
Leu Gly Lys His Gly Phe Phe Val Asn Pro Ser Asp Ser Val Ala Val		
290	295	300
Ile Ala Ala Asn Ile Phe Ser Ile Pro Tyr Phe Gln Gln Thr Gly Val		
305	310	315
		320
Arg Gly Phe Ala Arg Ser Met Pro Thr Ser Gly Ala Leu Asp Arg Val		
325	330	335
Ala Ser Ala Thr Lys Ile Ala Leu Tyr Glu Thr Pro Thr Gly Trp Lys		
340	345	350
Phe Phe Gly Asn Leu Met Asp Ala Ser Lys Leu Ser Leu Cys Gly Glu		
355	360	365
Glu Ser Phe Gly Thr Gly Ser Asp His Ile Arg Glu Lys Asp Gly Leu		

495

370	375	380
Trp Ala Val Leu Ala Trp Leu Ser Ile Leu Ala Thr Arg Lys Gln Ser		
385	390	395 400
Val Glu Asp Ile Leu Lys Asp His Trp Gln Lys Xaa Gly Arg Asn Phe		
	405	410 415
Phe Thr Arg Tyr Asp Tyr Glu Glu Val Glu Ala Glu Gly Ala Asn Lys		
	420	425 430
Met Met Lys Asp Leu Glu Ala Leu Met Phe Asp Arg Ser Phe Val Gly		
	435	440 445
Lys Gln Phe Ser Ala Asn Asp Lys Val Tyr Thr Val Glu Lys Ala Asp		
	450	455 460
Asn Phe Glu Tyr Ser Asp Pro Val Asp Gly Ser Xaa Ser Arg Asn Gln		
	465	470 475 480
Gly Leu Arg Leu Ile Phe Thr Asp Gly Ser Arg Xaa Arg Leu Pro Thr		
	485	490 495
Glu Arg His Trp Glu Cys Gly Xaa His His Ser Ala Val His Arg		
	500	505 510

<210> 553

<211> 184

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (118)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 553

Gln Pro Ser Pro His Ser Gln Ser Arg Pro Ser Pro Gln Lys Asp Pro
1 5 10 15

Gln Pro Leu Leu Leu Pro Arg Leu Asp Pro Gly Gln Arg Gly Asn Lys
20 25 30

Leu Pro Thr Gly Glu Gln Gly Leu Asp Glu Asp Val Asp Gly Val Cys
35 40 45

Glu Ser His Ala Ala Pro Gly Leu Glu Cys Ser Ser Gly Ser Ala Asn
50 55 60

Cys Gln Gly Ala Gly Pro Ser Ala Asp Gly Ile Ser Ser Arg Leu Thr
 65 70 75 80
 Pro Ala Glu Ser Cys Met Gly Leu Val Arg Met Asn Leu Tyr Thr His
 85 90 95
 Cys Val Lys Gly Leu Met Leu Ser Leu Leu Ala Glu Glu Pro Leu Leu
 100 105 110
 Gly Asp Ser Ala Pro Xaa Glu Glu Val Tyr His Ser Ser Leu Ala Ser
 115 120 125
 Leu Asn Gly Leu Glu Val His Leu Lys Glu Thr Leu Pro Arg Asp Glu
 130 135 140
 Ala Ala Ser Thr Ser Ser Thr Tyr Asn Phe Thr Tyr Tyr Asp Arg Ile
 145 150 155 160
 Gln Ser Leu Leu Met Ala Asn Leu Pro Gln Trp Pro Pro Arg Met Ile
 165 170 175
 Ala Ala Ser Ser Arg Pro Ser Ala
 180

<210> 554

<211> 80

<212> PRT

<213> Homo sapiens

<400> 554

Ala Arg Ala Val Gly Tyr Leu Thr Thr Pro Thr Ala Ala Leu Ala Ser
 1 5 10 15
 Ala Pro Thr Ser Val Leu Ser Gln Ser Gly Ala Leu Val Arg Met Gln
 20 25 30
 Gly Val Pro Tyr Thr Ala Gly Met Lys Asp Leu Leu Ser Val Phe Gln
 35 40 45
 Ala Tyr Gln Leu Pro Ala Asp Asp Tyr Thr Ser Leu Met Pro Val Gly
 50 55 60
 Asp Pro Pro Arg Thr Val Leu Gln Ala Pro Lys Glu Trp Val Cys Leu
 65 70 75 80

<210> 555
<211> 141
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (136)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 555
Gly His Glu Leu Glu Thr Thr Ala Asp Val Glu Glu Ile Thr Gly Glu
1 5 10 15
Gly Leu Thr Ala Ser Gly Ser Gly Asp Val Met Arg Arg Arg Ile Ala
20 25 30
Thr Pro Glu Glu Val Arg Leu Pro Leu Gln His Gly Trp Arg Arg Glu
35 40 45
Val Arg Ile Lys Lys Gly Ser His Arg Trp Gln Gly Glu Thr Trp Tyr
50 55 60
Tyr Gly Pro Cys Gly Lys Arg Met Lys Gln Phe Pro Glu Val Ile Lys
65 70 75 80
Tyr Leu Ser Arg Asn Val Val His Ser Val Arg Arg Glu His Phe Ser
85 90 95
Phe Ser Pro Arg Met Pro Val Gly Asp Phe Phe Glu Arg Lys Arg His
100 105 110
Ala Arg Gly Ala Asp Pro Lys Val Lys Tyr Ala Phe Val Pro Glu Glu
115 120 125
Glu Leu Val Asp Lys Leu Gln Xaa Pro Leu Val Gly Val
130 135 140

<210> 556
<211> 110
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (105)
<223> Xaa equals any of the naturally occurring L-amino acids

498

<400> 556

Glu Ser Met Asn Ile Phe Glu Thr Ile Val Asn Asn Lys Leu Phe Phe
 1 5 10 15

Asn Val Ser Ile Ile Leu Phe Leu Asn Lys Met Asp Leu Leu Val Glu
 20 25 30

Lys Val Lys Thr Val Ser Ile Lys Lys His Phe Pro Asp Phe Arg Gly
 35 40 45

Asp Pro His Arg Leu Glu Asp Val Gln Arg Tyr Leu Val Gln Cys Phe
 50 55 60

Asp Arg Lys Arg Arg Asn Arg Ser Lys Pro Leu Phe His His Phe Thr
 65 70 75 80

Thr Ala Ile Asp Thr Glu Asn Val Arg Phe Val Phe His Ala Val Lys
 85 90 95

Asp Thr Ile Leu Gln Glu Asn Leu Xaa Asp Ile Met Leu Gln
 100 105 110

<210> 557

<211> 99

<212> PRT

<213> Homo sapiens

<400> 557

Lys Ser Asn Lys Asn Ile Leu Phe Ile Ile Ala Leu Cys Phe Gly Leu
 1 5 10 15

Cys Arg Pro Pro Asp Thr His Glu Ala Pro Thr Ser Gln Ala Gly Lys
 20 25 30

Ala Lys Ser Leu Pro Ser Ala Phe Leu Val Met Leu His Leu Ala Glu
 35 40 45

Cys Leu Gln Gly Leu Asp Pro Ser Ala Leu Arg His Ser Trp Ala Lys
 50 55 60

Gln Lys Glu Arg Asn Thr Ser Ala Val Thr Leu Asn Glu Leu Arg Asn
 65 70 75 80

Ser Phe Pro Leu Asp Cys Arg Gly Ala Asn Cys Leu Glu Gln Lys Thr
 85 90 95

Ala Gly Cys

<210> 558
<211> 51
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 558
Phe Xaa Pro Leu Pro Phe Phe Phe Phe Leu Ser Pro Ser Gly Gly Ile
1 5 10 15
Pro Glu Glu Gly Ile Val Val Met Gly Asp Asn Ser Ser Met His Val
20 25 30
Ile Ala Pro Glu Asp Leu Pro Val Lys Arg Asp Val Glu Val Glu Asp
35 40 45
Ser Asp Ile
50

<210> 559
<211> 160
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (138)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (152)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (158)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 559
Thr His Ala Ser Gly Arg Gly Cys Cys Gly Arg Val Arg Leu Leu Arg
1 5 10 15

500

Arg Gly Leu His Val Asp Cys Gly Lys Leu Gly Asn Lys Leu Thr Ser
 20 25 30
 Ser Cys Gly Lys Pro Ser Ser Asn Arg Met Ser Leu Gln Trp Thr Ala
 35 40 45
 Val Ala Thr Phe Leu Tyr Ala Glu Val Phe Val Val Leu Leu Leu Cys
 50 55 60
 Ile Pro Phe Ile Ser Pro Lys Arg Trp Gln Lys Ile Phe Lys Ser Arg
 65 70 75 80
 Leu Val Glu Leu Leu Val Ser Tyr Gly Asn Thr Phe Phe Val Val Leu
 85 90 95
 Ile Val Ile Leu Val Leu Leu Val Ile Asp Ala Val Arg Glu Ile Arg
 100 105 110
 Lys Tyr Asp Asp Val Thr Glu Lys Val Asn Leu Gln Asn Asn Pro Gly
 115 120 125
 Ala Met Glu His Phe His Met Lys Leu Xaa Pro Cys Pro Glu Glu Ser
 130 135 140
 Leu Thr Leu Ala Gly Phe Ser Xaa Trp Cys Pro Pro Val Xaa Ser Pro
 145 150 155 160

<210> 560

<211> 81

<212> PRT

<213> Homo sapiens

<400> 560

Trp Arg Ser Arg Arg Arg Met Glu Glu Leu Arg Met Leu Glu Glu Glu
 1 5 10 15
 Asn Gln Gly Gly Gly Ser Asp Met Pro Trp Arg Leu Val Gly Ser Gly
 20 25 30
 Leu Glu Gly Gly Gln Ala Gly Ser Gly Arg Pro Trp Glu Lys Trp Arg
 35 40 45
 Glu Val Ser Gly Gly Leu Ala Ser Ala Ala Ala Pro Trp Trp Val Pro
 50 55 60
 Gly Leu Ala Thr Ala Arg Ala Gly Arg Gly Glu Gly Arg Gly Leu Pro

501

65 70 75 80

Asn

<210> 561

<211> 67

<212> PRT

<213> Homo sapiens

<400> 561

Gln Leu Thr Gly Cys Arg His Gly Arg Gly Phe Leu Lys Ile Ser Leu
1 5 10 15

Ser Ile Thr Ile Ser Ile Phe Thr Phe Glu Asn Leu Leu Trp Arg Leu
20 25 30

Arg Thr Ser Lys Leu Leu Thr Tyr Phe Leu Tyr Lys Val Thr Pro Met
35 40 45

Lys Gly Asp Tyr Lys Ile Ile Tyr Ile Ala Val Tyr Lys Thr Asp Asn
50 55 60

Met Asp Val
65

<210> 562

<211> 87

<212> PRT

<213> Homo sapiens

<400> 562

Arg Ile His Glu Lys Tyr Glu Ile Trp Phe His Pro Val Arg His Phe
1 5 10 15

Asn Arg Glu Asp Gln Asn Val Thr Trp Gln Leu Gly Asn Asn Leu Thr
20 25 30

Ser Leu Ala Val Gly Leu Asn Phe Leu Ile Ile Asp Pro Gly Ile Phe
35 40 45

Gln Pro Glu Thr Gln Leu Ser Gly Arg Gln Thr Asn Cys Thr Thr Pro
50 55 60

Thr Ile Ser Trp Thr Leu Lys Phe Cys Leu Leu Gln Ser Ile Val Ser
65 70 75 80

Phe Lys Ala Pro Val Leu Ala
85

<210> 563
<211> 123
<212> PRT
<213> Homo sapiens

<400> 563
His Phe Leu Gln Pro Ser Leu Ser Gln Ile Cys His Ile Gly Leu Pro
1 5 10 15
Phe Gln Pro Arg His Leu Thr Arg Ala Ile Cys Cys Arg Val Thr Arg
20 25 30
Asp Gly Ser Ala Phe Glu Asp Gly Leu Arg His Pro Phe Ile Val Asn
35 40 45
His Pro Lys Val Gly Arg Val Ser Ile Tyr Asp Ser Lys Arg Gln Ser
50 55 60
Gly Lys Thr Lys Glu Thr Ser Val Asn Trp Cys Leu Ala Asp Gly Tyr
65 70 75 80
Asp Leu Glu Ile Leu Asp Gly Thr Arg Gly Thr Val Asp Gly Pro Arg
85 90 95
Asn Glu Leu Ser Arg Val Ser Lys Lys Asn Ile Phe Leu Leu Phe Lys
100 105 110
Lys Leu Cys Ser Phe Arg Tyr Arg Arg Ile Tyr
115 120

<210> 564
<211> 188
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (117)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 564
Tyr Val Met Glu Ser Arg Asp Pro Ser Thr Asn Val Ile Leu Leu Glu
1 5 10 15

Asp Thr Ala Ala Val Leu Gly Val Ile Ile Ala Ala Thr Cys Met Gly
 20 25 30
 Leu Thr Ser Ile Thr Gly Asn Pro Leu Tyr Asp Ser Leu Gly Ser Leu
 35 40 45
 Gly Val Gly Thr Leu Leu Gly Met Val Ser Ala Phe Leu Ile Tyr Thr
 50 55 60
 Asn Thr Glu Ala Leu Leu Gly Arg Ser Ile Gln Pro Glu Gln Val Gln
 65 70 75 80
 Arg Leu Thr Glu Leu Leu Glu Asn Asp Pro Ser Val Arg Ala Ile His
 85 90 95
 Asp Val Lys Ala Thr Asp Leu Gly Leu Gly Lys Val Arg Phe Lys Ala
 100 105 110
 Glu Val Asp Phe Xaa Gly Arg Val Val Thr Arg Ser Tyr Leu Glu Lys
 115 120 125
 Gln Asp Phe Asp Gln Met Leu Gln Glu Ile Gln Glu Val Lys Thr Pro
 130 135 140
 Glu Glu Leu Glu Thr Phe Met Leu Lys His Gly Glu Asn Ile Ile Asp
 145 150 155 160
 Thr Leu Gly Ala Glu Val Asp Arg Leu Glu Lys Glu Leu Lys Lys Arg
 165 170 175
 Asn Pro Glu Val Arg His Val Asp Leu Glu Ile Leu
 180 185

<210> 565

<211> 71

<212> PRT

<213> Homo sapiens

<400> 565

Asp Val Ile Ser Met Glu Leu Arg Phe Asp Phe Ser His Ser Leu Thr
 1 5 10 15
 His Arg Arg Arg Thr Lys Glu Arg Asn Glu Ile Met Leu Thr Met Lys
 20 25 30
 Leu Phe Ile Thr Ser Thr Asp Leu Ser Leu Ser Leu Phe Leu Ser Phe
 35 40 45
 Ser Phe Ser His Thr Pro Arg Gln Asn Phe Phe Lys Glu Met Thr Leu

50 55 60

Lys Thr Ile Ile Ser Val Phe

65 70

<210> 566

<211> 51

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 566

Ser Pro Gly Leu Pro Glu Phe Gly Gln Ser Ala Ser Leu Pro Leu Leu

1 5 10 15

Pro Ala Ala Val Ala Ala Pro Phe Asp Asp Asp Asp Lys Ile Val Gly

20 25 30

Gly Tyr Xaa Xaa Glu Glu Lys Phe Cys Pro Pro Thr Arg Cys Pro Xaa

35 40 45

Asn Ser Gly

50

<210> 567

<211> 473

<212> PRT

<213> Homo sapiens

<400> 567

Ile Arg His Asp Gly Thr Ala Thr Met Leu Pro Leu Trp Thr Leu Ser

1 5 10 15

Leu Leu Leu Gly Ala Val Ala Gly Lys Glu Val Cys Tyr Glu Arg Leu
 20 25 30

Gly Cys Phe Ser Asp Asp Ser Pro Trp Ser Gly Ile Thr Glu Arg Pro
 35 40 45

Leu His Ile Leu Pro Trp Ser Pro Lys Asp Val Asn Thr Arg Phe Leu
 50 55 60

Leu Tyr Thr Asn Glu Asn Pro Asn Asn Phe Gln Glu Val Ala Ala Asp
 65 70 75 80

Ser Ser Ser Ile Ser Gly Ser Asn Phe Lys Thr Asn Arg Lys Thr Arg
 85 90 95

Phe Ile Ile His Gly Phe Ile Asp Lys Gly Glu Glu Asn Trp Leu Ala
 100 105 110

Asn Val Cys Lys Asn Leu Phe Lys Val Glu Ser Val Asn Cys Ile Cys
 115 120 125

Val Asp Trp Lys Gly Gly Ser Arg Thr Gly Tyr Thr Gln Ala Ser Gln
 130 135 140

Asn Ile Arg Ile Val Gly Ala Glu Val Ala Tyr Phe Val Glu Phe Leu
 145 150 155 160

Gln Ser Ala Phe Gly Tyr Ser Pro Ser Asn Val His Val Ile Gly His
 165 170 175

Ser Leu Gly Ala His Ala Ala Gly Glu Ala Gly Arg Arg Thr Asn Gly
 180 185 190

Thr Ile Gly Arg Ile Thr Gly Leu Asp Pro Ala Glu Pro Cys Phe Gln
 195 200 205

Gly Thr Pro Glu Leu Val Arg Leu Asp Pro Ser Asp Ala Lys Phe Val
 210 215 220

Asp Val Ile His Thr Asp Gly Ala Pro Ile Val Pro Asn Leu Gly Phe
 225 230 235 240

Gly Met Ser Gln Val Val Gly His Leu Asp Phe Phe Pro Asn Gly Gly
 245 250 255

Val Glu Met Pro Gly Cys Lys Lys Asn Ile Leu Ser Gln Ile Val Asp
 260 265 270

Ile Asp Gly Ile Trp Glu Gly Thr Arg Asp Phe Ala Ala Cys Asn His
 275 280 285

506

Leu Arg Ser Tyr Lys Tyr Tyr Thr Asp Ser Ile Val Asn Pro Asp Gly
 290 295 300

Phe Ala Gly Phe Pro Cys Ala Ser Tyr Asn Val Phe Thr Ala Asn Lys
 305 310 315 320

Cys Phe Pro Cys Pro Ser Gly Gly Cys Pro Gln Met Gly His Tyr Ala
 325 330 335

Asp Arg Tyr Pro Gly Lys Thr Asn Asp Val Gly Gln Lys Phe Tyr Leu
 340 345 350

Asp Thr Gly Asp Ala Ser Asn Phe Ala Arg Trp Arg Tyr Lys Val Ser
 355 360 365

Val Thr Leu Ser Gly Lys Lys Val Thr Gly His Ile Leu Val Ser Leu
 370 375 380

Phe Gly Asn Lys Gly Asn Ser Lys Gln Tyr Glu Ile Phe Lys Gly Thr
 385 390 395 400

Leu Lys Pro Asp Ser Thr His Ser Asn Glu Phe Asp Ser Asp Val Asp
 405 410 415

Val Gly Asp Leu Gln Met Val Lys Phe Ile Trp Tyr Asn Asn Val Ile
 420 425 430

Asn Pro Thr Leu Pro Arg Val Gly Ala Ser Lys Ile Ile Val Glu Thr
 435 440 445

Asn Val Gly Lys Gln Phe Asn Phe Cys Ser Pro Glu Thr Val Arg Glu
 450 455 460

Glu Val Leu Leu Thr Leu Thr Pro Cys
 465 470

<210> 568

<211> 103

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (87)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 568

Arg Gly Thr Ala Lys Lys Gln Ser Gly Arg Ile Glu Val Pro Thr Ser
 1 5 10 15

Ala Arg Gly Pro Cys His Ile Trp Thr Val Leu Trp Arg Arg Gln Leu
20 25 30
His His Ser Val Gln Leu Pro Pro Trp Trp Pro Pro Gly Gln Ile Ile
35 40 45
Tyr Asn Trp Gln Gly Ala Gln Ser Thr Gln Asp Glu Val Ala Ala Ser
50 55 60
Ala Ile Leu Thr Ala Gln Leu Asp Glu Glu Leu Gly Gly Thr Pro Val
65 70 75 80
Gln Val Ser Pro Ala His Xaa Leu Ser Gly Leu Gln Pro Glu Pro Cys
85 90 95
Pro Ser Leu His Ser Ser Val
100

<210> 569
<211> 72
<212> PRT
<213> Homo sapiens

<400> 569
Leu Lys Val Phe His Thr Gly Glu Arg Leu Tyr Pro Leu Ile His Asp
1 5 10 15
Val His Thr Gln Leu Ala Gly Lys Ile Thr Gly Met Leu Leu Glu Ile
20 25 30
Asp Asn Ser Glu Leu Leu Leu Met Leu Glu Ser Pro Glu Ser Leu His
35 40 45
Ala Lys Ile Asp Glu Ala Val Ala Val Leu Gln Ala His Gln Ala Met
50 55 60
Glu Gln Pro Lys Ala Tyr Met His
65 70

<210> 570
<211> 136
<212> PRT
<213> Homo sapiens

<220>
<221> SITE

<222> (103)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (105)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (108)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (116)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (121)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (135)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 570

Ser	Cys	Gln	Tyr	Gly	Val	Gln	Ser	Asn	Lys	Asp	Gly	Ser	Glu	Lys	Leu
1				5					10					15	

Glu	Glu	Asn	Asn	Ile	Met	Thr	Gln	Glu	Ser	Arg	Ala	Cys	Ser	Ser	Val
			20					25						30	

Trp	Lys	Glu	Phe	Gly	Ser	Val	Gly	Arg	Cys	Asn	Val	His	Arg	His	Phe
		35						40					45		

Gln	Gly	Asn	Ser	Lys	Gln	Ser	Pro	Phe	Pro	Phe	Ala	Phe	Pro	Gln	Ile
		50				55					60				

Leu	Ser	Val	Tyr	Ile	Lys	Pro	Trp	Val	His	Ile	Val	Val	Val	Ile	Glu
	65					70				75					80

Gly	Asn	Trp	Leu	Asn	Ser	Thr	Leu	Val	Tyr	Gly	Thr	Phe	Cys	Gly	His
				85						90				95	

Leu	Arg	Lys	Thr	Ser	Tyr	Xaa	Leu	Xaa	Gly	Gly	Xaa	Cys	Cys	Pro	Ala
							100		105					110	

Arg	Gly	Arg	Xaa	Ile	Leu	Thr	Thr	Xaa	Pro	Pro	Trp	Pro	Leu	Ser	Thr
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

115 120 125
 Phe His Gly Gly His Ala Xaa His
 130 135

<210> 571
 <211> 79
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (13)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (64)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (71)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (79)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 571
 Trp Thr Arg Thr Glu Ile Trp Ile Leu Arg Cys Arg Xaa Gly Gly Glu
 1 5 10 15
 Gly Met Val Glu Ile Asp Ser Ser Pro Leu Leu Gly Trp Val Ile Ser
 20 25 30
 Pro Asn Asn Tyr Arg Glu Thr Val Phe Gln Leu Ser Phe His Cys Cys
 35 40 45
 Phe Gln Lys Ser Gly Glu Cys Gly Phe Arg Gln Gly Ile Asn Asp Xaa
 50 55 60
 Ile Pro Trp Tyr Tyr Ser Xaa Leu Trp Thr Phe Gly Ser Phe Xaa
 65 70 75

<210> 572

<211> 146
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (1)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (6)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (114)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (141)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 572
 Xaa Arg Gly Val Gly Xaa Gln Arg Cys Trp Asn Phe Val Ala Cys Leu
 1 5 10 15
 Pro Val Arg Ala Cys Ala Asp Met Ala Ser Asn Asp Tyr Thr Gln Gln
 20 25 30
 Ala Thr Gln Ser Tyr Gly Ala Tyr Pro Thr Gln Pro Gly Gln Gly Tyr
 35 40 45
 Ser Gln Gln Ser Ser Gln Pro Tyr Gly Gln Gln Ser Tyr Ser Gly Tyr
 50 55 60
 Ser Gln Ser Thr Asp Thr Ser Gly Tyr Gly Gln Ser Ser Tyr Ser Ser
 65 70 75 80
 Tyr Gly Gln Ser Gln Asn Ser Glu Ser Phe Ser Ala Gly His Leu Phe
 85 90 95
 Leu Leu Phe Leu Asn Ile Ala Phe Leu Phe Leu Val Phe Trp Arg Arg
 100 105 110
 Ser Xaa Val Leu Leu Pro Arg Leu Glu Cys Ser Gly Ala Val Ser Ala
 115 120 125
 Ser Leu Gln His Gln Pro Thr Gly Phe Lys Arg Ile Xaa Pro Ala Ser
 130 135 140

Ala Ser
145

<210> 573
<211> 139
<212> PRT
<213> Homo sapiens

<400> 573
Gly Ala Ala Glu Lys Phe Arg Glu His Arg Pro Thr Lys Leu Lys Ser
1 5 10 15
Leu Leu Arg Leu Val Asn Thr Gly Thr Ser Arg Pro Ile Ile Leu Asp
20 25 30
Pro Ala Asp Pro Thr Leu Asn Val Ala Glu Gly Tyr Arg Trp Asp Ile
35 40 45
Val Ala Gln Arg Ala Ser Gln Cys Leu Lys Gln Asp Cys Cys Tyr Asp
50 55 60
Asn Arg Glu Asn Pro Ile Ser Ser Trp Asn Val Lys Arg Ala Arg Asp
65 70 75 80
Ile His Leu Thr Val Glu Gln Arg Gly Tyr Pro Asp Phe Asn Leu Ile
85 90 95
Val Asn Pro Tyr Glu Pro Ile Arg Lys Val Lys Glu Lys Ile Arg Arg
100 105 110
Pro Gly Ala Thr Leu Ala Cys Ser Val Cys Pro Ser Arg Phe Leu Ala
115 120 125
Val Arg Gly Ser Phe Ser Ala Ala Gly Ala Pro
130 135

<210> 574
<211> 101
<212> PRT
<213> Homo sapiens

<400> 574
Arg Arg Leu Lys Lys Lys Lys Thr Thr Ile Lys Lys Asn Thr Leu Asn
1 5 10 15
Pro Val Tyr Asn Glu Ala Ile Ile Phe Asp Ile Pro Pro Glu Asn Met

512

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                20                25                30
Asp Gln Val Ser Leu Leu Ile Ser Val Met Asp Tyr Asp Arg Val Gly
      35                40                45
His Asn Glu Ile Ile Gly Val Cys Arg Val Gly Ile Thr Ala Glu Gly
      50                55                60
Leu Gly Arg Asp His Trp Asn Glu Met Leu Ala Tyr Pro Arg Lys Pro
      65                70                75                80
Ile Ala His Trp His Ser Leu Val Glu Val Lys Lys Ser Phe Lys Glu
      85                90                95
Gly Asn Pro Arg Leu
      100

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<210> 575

<211> 170

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 575

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Leu His Thr Leu Ser Lys Val Asn Asn Glu Asp Pro Phe Arg Ser Ala
  1                5                10                15
Thr Ser Ser Ser Val Ser Asn Val Val Xaa Thr Lys Asn Val Phe Glu
      20                25                30
Glu Thr Ser Val Lys Ser Glu Asp Glu Pro Pro Ala Leu Pro Pro Lys
      35                40                45
Ile Gly Thr Pro Thr Arg Pro Cys Pro Leu Pro Pro Gly Lys Arg Ser
      50                55                60
Ile Asn Lys Leu Asp Ser Pro Asp Pro Phe Lys Leu Asn Asp Pro Phe
      65                70                75                80
Gln Pro Phe Pro Gly Asn Asp Ser Pro Lys Glu Lys Asp Pro Glu Ile
      85                90                95
Phe Cys Asp Pro Phe Thr Ser Ala Thr Thr Thr Thr Asn Lys Glu Ala
      100                105                110

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Asp Pro Ser Asn Phe Ala Asn Phe Ser Ala Tyr Pro Ser Glu Glu Asp
 115 120 125

Met Ile Glu Trp Ala Lys Arg Glu Ser Glu Arg Glu Glu Gln Arg
 130 135 140

Leu Ala Arg Leu Asn Gln Gln Glu Asp Leu Glu Leu Ala Ile
 145 150 155 160

Ala Leu Ser Lys Ser Glu Ile Ser Glu Ala
 165 170

<210> 576

<211> 269

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (167)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (213)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (220)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (234)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 576

Leu Ser Gly His Thr Met Ile Xaa Thr Leu Leu Leu Ser Thr Leu Val
 1 5 10 15

Ala Gly Ala Leu Ser Cys Gly Asp Pro Thr Tyr Pro Pro Tyr Val Thr
 20 25 30

Arg Val Val Gly Gly Glu Glu Ala Arg Pro Asn Ser Trp Pro Trp Gln
 35 40 45
 Val Ser Leu Gln Tyr Ser Ser Asn Gly Lys Trp Tyr His Thr Cys Gly
 50 55 60
 Gly Ser Leu Ile Ala Asn Ser Trp Val Leu Thr Ala Ala His Cys Ile
 65 70 75 80
 Ser Ser Ser Arg Thr Tyr Arg Val Gly Leu Gly Arg His Asn Leu Tyr
 85 90 95
 Val Ala Glu Ser Gly Ser Leu Ala Val Ser Val Ser Lys Ile Val Val
 100 105 110
 His Lys Asp Trp Asn Ser Asn Gln Ile Ser Lys Gly Asn Asp Ile Ala
 115 120 125
 Leu Leu Lys Leu Ala Asn Pro Val Ser Leu Thr Asp Lys Ile Gln Leu
 130 135 140
 Ala Cys Leu Pro Pro Ala Gly Thr Ile Leu Pro Asn Asn Tyr Pro Cys
 145 150 155 160
 Tyr Val Thr Gly Trp Gly Xaa Leu Gln Thr Asn Gly Ala Val Pro Asp
 165 170 175
 Val Leu Gln Gln Gly Arg Leu Leu Val Val Asp Tyr Ala Thr Cys Ser
 180 185 190
 Ser Ser Ala Trp Trp Gly Ser Ser Val Lys Thr Ser Met Ile Cys Ala
 195 200 205
 Gly Gly Asp Gly Xaa Ile Ser Ser Cys Asn Gly Xaa Ser Gly Gly Pro
 210 215 220
 Leu Asn Cys Gln Ala Ser Asp Gly Arg Xaa Gln Val Thr Ala Ser Ser
 225 230 235 240
 Ala Ser Gly Leu Ala Ser Ala Ala Thr Thr Thr Thr Ser Pro Pro Ser
 245 250 255
 Ser Arg Gly Ser Pro Ile Thr Ser Thr Gly Ser Ile Arg
 260 265

<210> 577

<211> 503

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (140)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (141)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (143)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (144)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (145)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (146)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 577

Ala Trp Val Ala Ala Arg Gly Pro Gly Glu Pro Phe Ala Glu Glu Arg
1 5 10 15

Arg Thr Ser Val Gly Met Ala Thr Asn Trp Gly Ser Leu Leu Gln Asp
20 25 30

Lys Gln Gln Leu Glu Glu Leu Ala Arg Gln Ala Val Asp Arg Ala Leu
35 40 45

Ala Glu Gly Val Leu Leu Arg Thr Ser Gln Glu Pro Thr Ser Ser Glu
50 55 60

Val Val Ser Tyr Ala Pro Phe Thr Leu Phe Pro Ser Leu Val Pro Ser
65 70 75 80

Ala Leu Leu Glu Gln Ala Tyr Ala Val Gln Met Asp Phe Asn Leu Leu
85 90 95

Val Asp Ala Val Ser Gln Asn Ala Ala Phe Leu Glu Gln Thr Leu Ser

100	105	110
Ser Thr Ile Lys Gln Asp Asp Phe Thr Ala Arg Leu Phe Asp Ile His		
115	120	125
Lys Gln Val Leu Lys Glu Gly Ile Ala Arg Leu Xaa Xaa Phe Xaa Xaa		
130	135	140
Xaa Xaa Asp Cys Val Pro Gly Pro Glu Ser Leu Arg Leu His Val Pro		
145	150	155
Ala Gln Glu Asp Gly Ser Pro Ala Leu Lys Gln Ile Glu Ile Asn Thr		
165	170	175
Ile Ser Ala Ser Phe Gly Gly Leu Ala Ser Arg Thr Pro Ala Val His		
180	185	190
Arg His Val Leu Ser Val Leu Ser Lys Thr Lys Glu Ala Gly Lys Ile		
195	200	205
Leu Ser Asn Asn Pro Ser Lys Gly Leu Ala Leu Gly Ile Ala Lys Ala		
210	215	220
Trp Glu Leu Tyr Gly Ser Pro Asn Ala Leu Val Leu Leu Ile Ala Gln		
225	230	235
Glu Lys Glu Arg Asn Ile Phe Asp Gln Arg Ala Ile Glu Asn Glu Leu		
245	250	255
Leu Ala Arg Asn Ile His Val Ile Arg Arg Thr Phe Glu Asp Ile Ser		
260	265	270
Glu Lys Gly Ser Leu Asp Gln Asp Arg Arg Leu Phe Val Asp Gly Gln		
275	280	285
Glu Ile Ala Val Val Tyr Phe Arg Asp Gly Tyr Met Pro Arg Gln Tyr		
290	295	300
Ser Leu Gln Asn Trp Glu Ala Arg Leu Leu Leu Glu Arg Ser His Ala		
305	310	315
Ala Lys Cys Pro Asp Ile Ala Thr Gln Leu Ala Gly Thr Lys Lys Val		
325	330	335
Gln Gln Glu Leu Ser Arg Pro Gly Met Leu Glu Met Leu Leu Pro Gly		
340	345	350
Gln Pro Glu Ala Val Ala Arg Leu Arg Ala Thr Phe Ala Gly Leu Tyr		
355	360	365
Ser Leu Asp Val Gly Glu Glu Gly Asp Gln Ala Ile Ala Glu Ala Leu		

370	375	380
Ala Ala Pro Ser Arg Phe Val Leu Lys Pro Gln Arg Glu Gly Gly Gly		
385	390	395 400
Asn Asn Leu Tyr Gly Glu Glu Met Val Gln Ala Leu Lys Gln Leu Lys		
	405	410 415
Asp Ser Glu Glu Arg Ala Ser Tyr Ile Leu Met Glu Lys Ile Glu Pro		
	420	425 430
Glu Pro Phe Glu Asn Cys Leu Leu Arg Pro Gly Ser Pro Ala Arg Val		
	435	440 445
Val Gln Cys Ile Ser Glu Leu Gly Ile Phe Gly Val Tyr Val Arg Gln		
	450	455 460
Glu Lys Thr Leu Val Met Asn Lys His Val Gly His Leu Leu Arg Thr		
465	470	475 480
Lys Ala Ile Glu His Ala Asp Gly Gly Val Ala Ala Gly Val Ala Val		
	485	490 495
Leu Asp Asn Pro Tyr Pro Val		
	500	

<210> 578

<211> 57

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 578

Leu Met Xaa Lys Leu Leu Glu His Gln Asp Thr Gln Ser Gly Lys Asp
1 5 10 15

His Arg Phe Leu Val Val Ser Gly Ser Thr Arg Thr Phe Gln Ile Gln
20 25 30

Glu Gln Arg Gln Trp Gln Arg Ser Xaa Ser Gly Gly His Gln Gly Asn

35 40 45
 Gly Thr Ile Gly Leu Trp Val Val Leu
 50 55

 <210> 579
 <211> 210
 <212> PRT
 <213> Homo sapiens

 <400> 579
 Thr Asp His Pro Gly Arg Thr Gly Arg Pro Thr Leu Pro Gly Lys Val
 1 5 10 15
 Thr Glu Glu Ile Val Ser Ser Glu His Asp Glu Gly Leu Ser Phe Ser
 20 25 30
 Gly Lys Val Gln Cys Tyr Gly Arg Glu Leu Asn Gln Pro Ala Ser Ala
 35 40 45
 Ala Lys Cys Thr Gly Asp Phe Ser Pro Ser Pro Glu Lys Leu Val Lys
 50 55 60
 Ser Gly Asn Pro Leu Gln Pro Val Ser Ile Glu Asn Arg Asn Leu Asp
 65 70 75 80
 Leu Lys His Leu Val Leu Glu Ser Ser Glu Pro Pro Phe Gly Pro Arg
 85 90 95
 Asn Val Ile Glu Asn Lys Ser Leu Ser Asp Thr Leu Val Ser Thr Thr
 100 105 110
 Ala Pro Ser Gly Ile Val Asn Val Ser Val Lys Gln Gln Thr Ser Pro
 115 120 125
 Lys Ser Ser Gln Asn His Leu Phe Pro Gly Asp Leu Lys Thr Asp Glu
 130 135 140
 Gly Ile Tyr Leu Gln Val Lys Ser Leu Thr Ala Ala Ser Val Asp Gly
 145 150 155 160
 Ala Tyr Ser Thr Gln Gly Cys Met Cys Ser Val Val Pro Thr Leu Cys
 165 170 175
 Ser Ser Ser Asp Asn Ala Thr Leu Thr His Tyr Val Arg Pro Ile Asn
 180 185 190
 Ala Glu Pro Ala Phe Gln Ala Gln Asn Thr Ser Arg Gln Asn Gly Gln
 195 200 205

Phe Ala
210

<210> 580

<211> 154

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (146)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 580

Glu Lys Ile Ile Leu Ala Thr Gln Val Pro Cys His Val Arg Ile Gly
1 5 10 15

Gly Val Arg Leu Pro Val Val Ser Val Leu Ile His Phe Ile Thr Ser
20 25 30

Tyr Arg Ala Asn Met Asn Val Gly Val Ala His Ser Glu Val Asn Pro
35 40 45

Asn Thr Arg Val Met Asn Ser Arg Gly Met Trp Leu Thr Tyr Ala Leu
50 55 60

Gly Val Gly Leu Leu His Ile Val Leu Leu Ser Ile Pro Phe Phe Ser
65 70 75 80

Val Pro Val Ala Trp Thr Leu Thr Asn Ile Ile His Asn Leu Gly Met
85 90 95

Tyr Val Phe Leu His Ala Val Lys Gly Thr Pro Phe Glu Thr Pro Asp
100 105 110

Gln Gly Lys Ala Arg Leu Leu Thr His Trp Glu Gln Leu Asp Tyr Gly
115 120 125

Val Gln Phe Thr Ser Ser Arg Lys Phe Phe Thr Ile Ser Pro Ile Ile
130 135 140

Leu Xaa Phe Leu Ala Ser Ser Ile Arg Arg
145 150

<210> 581

<211> 133

<212> PRT

<213> Homo sapiens

<400> 581

Ala Val Pro Ser Glu Phe Pro Gly Arg Pro Thr Arg Pro Gln Leu Leu
1 5 10 15

Leu Glu Phe Ser Phe Trp Asn Glu Pro Val Pro Arg Ser Gly Pro Asn
20 25 30

Ile Tyr Glu Leu Arg Ser Tyr Gln Leu Arg Pro Gly Thr Met Ile Glu
35 40 45

Trp Gly Asn Tyr Trp Ala Arg Ala Ile Arg Phe Arg Gln Asp Gly Asn
50 55 60

Glu Ala Val Gly Gly Phe Phe Ser Gln Ile Gly Gln Leu Tyr Met Val
65 70 75 80

His His Leu Trp Ala Tyr Arg Asp Leu Gln Thr Arg Glu Asp Ile Arg
85 90 95

Asn Ala Ala Trp His Lys His Gly Trp Glu Glu Leu Val Tyr Tyr Thr
100 105 110

Val Pro Leu Ile Gln Glu Met Glu Ser Arg Ile Met Ile Pro Leu Lys
115 120 125

Thr Ser Pro Leu Gln
130

<210> 582

<211> 59

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 582

Gly Thr Val Xaa Xaa Asn Leu Arg Lys Val Asn Thr Trp Xaa Ile Thr
1 5 10 15

Arg Ser Lys Thr Ser Ala Thr Lys Ser Phe Ile Ser Cys Phe Leu Lys
20 25 30

Ala Val Leu Cys Ile Asn Asn Lys Trp Leu Tyr Leu Thr Lys Cys Lys
35 40 45

Val Arg Ile Leu His Ile Lys Leu Phe Phe Pro
50 55

<210> 583

<211> 92

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (70)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 583

Gly Arg Val Ile Glu Glu Leu Gly Gly Ile Asp Arg Ile Xaa Ala Leu
1 5 10 15

Gln Leu His Glu Asn Arg Gln Ile Gly Gln Ser Ala Leu Asn Ile Ile
20 25 30

Glu Lys His Phe Gly Glu Lys Thr Ser Arg Ser Asn Leu Leu Xaa Ser
35 40 45

Lys Ile Lys Glu Thr Val Lys Pro Thr Arg Asn Gln Pro Ser Gly Arg
50 55 60

Gly Glu Lys Thr Thr Xaa Leu Ser Asn Glu Arg Phe Pro Gly Gln Glu

522

65		70		75		80
His	Leu	Gly	Val	Arg	Asn	Arg
				Ser	Leu	His
					Pro	Gly
		85			90	

<210> 584

<211> 460

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (110)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (421)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (433)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (437)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (449)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (450)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 584

Glu	Thr	Cys	Pro	Asp	Arg	Gly	Phe	Pro	Asp	Trp	Cys	Trp	His	Gln	His
1				5				10					15		

Arg His Arg Phe Ala Asp Xaa Thr Leu Pro Leu Ala Ser Gln Glu Ser
 20 25 30

Ala Val Val Glu Asp Leu Leu Tyr Val Leu Val Gly Val Asp Gly Arg
 35 40 45

Tyr Val Ser Ala Gln Pro Leu Ala Gly Arg Gln Ser Arg Thr Phe Leu
 50 55 60

Val Asp Pro Asn Leu Asp Leu Ser Ile Arg Glu Leu Val His Arg Ile
 65 70 75 80

Leu Pro Val Ala Ala Ser Tyr Ser Ala Val Thr Arg Phe Ile Glu Glu
 85 90 95

Lys Ser Ser Phe Glu Tyr Gly Gln Val Asn His Ala Leu Xaa Ala Ala
 100 105 110

Met Arg Thr Leu Val Lys Glu His Leu Ile Leu Val Ser Gln Leu Glu
 115 120 125

Gln Leu His Arg Gln Gly Leu Leu Ser Leu Gln Lys Leu Trp Phe Tyr
 130 135 140

Ile Gln Pro Ala Met Arg Thr Met Asp Ile Leu Ala Ser Leu Ala Thr
 145 150 155 160

Ser Val Asp Lys Gly Glu Cys Leu Gly Gly Ser Thr Leu Ser Leu Leu
 165 170 175

His Asp Arg Ser Phe Ser Tyr Thr Gly Asp Ser Gln Ala Gln Glu Leu
 180 185 190

Cys Leu Tyr Leu Thr Lys Ala Ala Ser Ala Pro Tyr Phe Glu Val Leu
 195 200 205

Glu Lys Trp Ile Tyr Arg Gly Ile Ile His Asp Pro Tyr Ser Glu Phe
 210 215 220

Met Val Glu Glu His Glu Leu Arg Lys Glu Arg Ile Gln Glu Asp Tyr
 225 230 235 240

Asn Asp Lys Tyr Trp Asp Gln Arg Tyr Thr Ile Val Gln Gln Gln Ile
 245 250 255

Pro Ser Phe Leu Gln Lys Met Ala Asp Lys Ile Leu Ser Thr Gly Lys
 260 265 270

Tyr Leu Asn Val Val Arg Glu Cys Gly His Asp Val Thr Cys Pro Val
 275 280 285

Ala Lys Glu Ile Ile Tyr Thr Leu Lys Glu Arg Ala Tyr Val Glu Gln
 290 295 300
 Ile Glu Lys Ala Phe Asn Tyr Ala Ser Lys Val Leu Leu Asp Phe Leu
 305 310 315 320
 Met Glu Glu Lys Glu Leu Val Ala His Leu Arg Ser Ile Lys Arg Tyr
 325 330 335
 Phe Leu Met Asp Gln Gly Asp Phe Phe Val His Phe Met Asp Leu Ala
 340 345 350
 Glu Glu Glu Leu Arg Lys Pro Val Glu Asp Ile Thr Pro Pro Arg Leu
 355 360 365
 Glu Ala Leu Leu Glu Leu Ala Leu Arg Met Ser Thr Ala Asn Thr Asp
 370 375 380
 Pro Phe Lys Asp Asp Leu Lys Ile Asp Leu Met Pro His Asp Leu Ile
 385 390 395 400
 Thr Gln Leu Leu Arg Val Leu Ala Ile Glu Thr Lys Gln Glu Lys Ala
 405 410 415
 Met Ala His Ala Xaa Pro Thr Glu Leu Ala Leu Ser Gly Leu Gly Gly
 420 425 430
 Xaa Leu Leu Ser Xaa Thr Ser Ser Ser Gly Pro Phe Arg Phe Ile His
 435 440 445
 Xaa Xaa Gly Ala Gly Ser Ala Ala Ser Gly Gln Leu
 450 455 460

<210> 585

<211> 277

<212> PRT

<213> Homo sapiens

<400> 585

Val Ile Leu Asp Gly Leu Leu Thr Trp Gly Gln Phe Lys Gln His Tyr
 1 5 10 15
 Asn Arg His Phe Gly Phe Leu Gly Asp Phe Ile Gly Gln Val Gln Ser
 20 25 30
 Arg Lys Cys Ile Glu Asp Val Ile His Phe Ala Trp Glu Glu Lys Leu
 35 40 45
 Phe Leu Leu Ala Asp Glu Val Tyr Gln Asp Asn Val Tyr Ser Pro Asp

50	55	60
Cys Arg Phe His Ser Phe Lys Lys Val Leu Tyr Glu Met Gly Pro Glu		
65	70	75 80
Tyr Ser Ser Asn Val Glu Leu Ala Ser Phe His Ser Thr Ser Lys Gly		
	85	90 95
Tyr Met Gly Glu Cys Gly Tyr Arg Gly Gly Tyr Met Glu Val Ile Asn		
	100	105 110
Leu His Pro Glu Ile Lys Gly Gln Leu Val Lys Leu Leu Ser Val Arg		
	115	120 125
Leu Cys Pro Pro Val Ser Gly Gln Ala Ala Met Asp Ile Val Val Asn		
	130	135 140
Pro Pro Val Ala Gly Glu Glu Ser Phe Glu Gln Phe Ser Arg Glu Lys		
	145	150 155 160
Glu Ser Val Leu Gly Asn Leu Ala Lys Lys Ala Lys Leu Thr Glu Asp		
	165	170 175
Leu Phe Asn Gln Val Pro Gly Ile His Cys Asn Pro Leu Gln Gly Ala		
	180	185 190
Met Tyr Ala Phe Pro Arg Ile Phe Ile Pro Ala Lys Ala Val Glu Ala		
	195	200 205
Ala Gln Ala His Gln Met Ala Pro Asp Met Phe Tyr Cys Met Lys Leu		
	210	215 220
Leu Glu Glu Thr Gly Ile Cys Val Val Pro Gly Ser Gly Phe Gly Gln		
	225	230 235 240
Arg Glu Gly Thr Tyr His Phe Arg Met Thr Ile Leu Pro Pro Val Glu		
	245	250 255
Lys Leu Lys Thr Val Leu Gln Lys Val Lys Asp Phe His Ile Asn Phe		
	260	265 270
Leu Glu Lys Tyr Ala		
	275	

<210> 586

<211> 259

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (199)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 586

Gln Arg Cys Phe Phe Leu Gln Thr Leu Leu Phe Leu Gln Ser Ser Ile
 1 5 10 15

Ile Ser Ala Met Ala Met Ala Ser Val Lys Leu Leu Ala Gly Val Leu
 20 25 30

Arg Lys Pro Asp Ala Trp Ile Gly Leu Trp Gly Val Leu Arg Gly Thr
 35 40 45

Pro Ser Ser Tyr Lys Leu Cys Thr Ser Trp Asn Arg Tyr Leu Tyr Phe
 50 55 60

Ser Ser Thr Lys Leu Arg Ala Pro Asn Tyr Lys Thr Leu Phe Tyr Asn
 65 70 75 80

Ile Phe Ser Leu Arg Leu Pro Gly Leu Leu Leu Ser Pro Glu Cys Ile
 85 90 95

Phe Pro Phe Ser Val Arg Leu Lys Ser Asn Ile Arg Ser Thr Lys Ser
 100 105 110

Thr Lys Lys Ser Leu Gln Lys Val Asp Glu Glu Asp Ser Asp Glu Glu
 115 120 125

Ser His His Asp Glu Met Ser Glu Gln Glu Glu Glu Leu Glu Asp Asp
 130 135 140

Pro Thr Val Val Lys Asn Tyr Lys Asp Leu Glu Lys Ala Val Gln Ser
 145 150 155 160

Phe Arg Tyr Asp Val Val Leu Lys Thr Gly Leu Asp Ile Gly Arg Asn
 165 170 175

Lys Val Glu Asp Ala Phe Tyr Lys Gly Glu Leu Arg Leu Asn Glu Glu
 180 185 190

Lys Leu Trp Lys Lys Ser Xaa Thr Val Lys Val Gly Asp Thr Leu Asp
 195 200 205

Leu Leu Ile Gly Glu Asp Lys Glu Ala Gly Thr Glu Thr Val Met Arg
 210 215 220

Ile Leu Leu Lys Lys Val Phe Glu Glu Lys Thr Glu Ser Glu Lys Tyr
 225 230 235 240

Arg Val Val Leu Arg Arg Trp Lys Ser Leu Lys Leu Pro Lys Lys Arg
 245 250 255

Met Ser Lys

<210> 587

<211> 360

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (315)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (325)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (326)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (327)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (339)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 587

Leu Asn Pro Gly Arg Pro Ala Arg Pro Val Leu Leu Arg Ser Xaa Ala
 1 5 10 15

Pro Pro Leu Glu Lys Met Phe Ser Met Arg Ile Val Cys Leu Val Leu
 20 25 30

Ser Val Val Gly Thr Ala Trp Thr Ala Asp Ser Gly Glu Gly Asp Phe

35	40	45																	
Leu	Ala	Glu	Gly	Gly	Gly	Val	Arg	Gly	Pro	Arg	Val	Val	Glu	Arg	His				
50						55					60								
Gln	Ser	Ala	Cys	Lys	Asp	Ser	Asp	Trp	Pro	Phe	Cys	Ser	Asp	Glu	Asp				
65					70					75				80					
Trp	Asn	Tyr	Lys	Cys	Pro	Ser	Gly	Cys	Arg	Met	Lys	Gly	Leu	Ile	Asp				
				85					90					95					
Glu	Val	Asn	Gln	Asp	Phe	Thr	Asn	Arg	Ile	Asn	Lys	Leu	Lys	Asn	Ser				
		100						105					110						
Leu	Phe	Glu	Tyr	Gln	Lys	Asn	Asn	Lys	Asp	Ser	His	Ser	Leu	Thr	Thr				
	115							120					125						
Asn	Ile	Met	Glu	Ile	Leu	Arg	Gly	Asp	Phe	Ser	Ser	Ala	Asn	Asn	Arg				
	130					135						140							
Asp	Asn	Thr	Tyr	Asn	Arg	Val	Ser	Glu	Asp	Leu	Arg	Ser	Arg	Ile	Glu				
145					150					155				160					
Val	Leu	Lys	Arg	Lys	Val	Ile	Glu	Lys	Val	Gln	His	Ile	Gln	Leu	Leu				
				165					170					175					
Gln	Lys	Asn	Val	Arg	Ala	Gln	Leu	Val	Asp	Met	Lys	Arg	Leu	Glu	Val				
			180					185					190						
Asp	Ile	Asp	Ile	Lys	Ile	Arg	Ser	Cys	Arg	Gly	Ser	Cys	Ser	Arg	Ala				
	195						200					205							
Leu	Ala	Arg	Glu	Val	Asp	Leu	Lys	Asp	Tyr	Glu	Asp	Gln	Gln	Lys	Gln				
	210					215					220								
Leu	Glu	Gln	Val	Ile	Ala	Lys	Asp	Leu	Leu	Pro	Ser	Arg	Asp	Arg	Gln				
225				230						235				240					
His	Leu	Pro	Leu	Ile	Lys	Met	Lys	Pro	Val	Pro	Asp	Leu	Val	Pro	Gly				
			245						250					255					
Asn	Phe	Lys	Ser	Gln	Leu	Gln	Lys	Val	Pro	Pro	Glu	Trp	Lys	Ala	Leu				
		260						265					270						
Thr	Asp	Met	Pro	Gln	Met	Arg	Met	Glu	Leu	Glu	Arg	Pro	Gly	Gly	Asn				
	275						280						285						
Glu	Ile	Thr	Arg	Gly	Gly	Ser	Thr	Ser	Tyr	Gly	Thr	Gly	Ser	Glu	Thr				
	290					295					300								
Glu	Ser	Pro	Arg	Asn	Pro	Ser	Ser	Ala	Gly	Xaa	Trp	Asn	Ser	Gly	Ser				

305 310 315 320
 Ser Gly Thr Trp Xaa Xaa Xaa Asn Leu Glu Thr Trp Glu Leu Trp Thr
 325 330 335
 Trp Lys Xaa Trp Lys Leu Glu Leu Trp Glu Leu Trp Asn Trp Lys Tyr
 340 345 350
 Trp Lys Pro Lys Pro Trp Glu Pro
 355 360

<210> 588
 <211> 88
 <212> PRT
 <213> Homo sapiens

<400> 588
 Arg Cys Leu Leu Glu Leu Gln Met His Ser Gly Leu Leu Pro Arg Pro
 1 5 10 15
 Glu Thr Phe Ser Leu Arg Lys Ala Leu Arg Thr Leu Asp Ser Leu Leu
 20 25 30
 Arg Leu Leu Ala Gln Leu His Thr Pro Ser Arg Thr Val Glu Gln Leu
 35 40 45
 Met Leu His Ala Ala Lys Leu Leu Tyr Phe Lys Gly Asn Arg Ser Ser
 50 55 60
 Thr Leu Leu His Pro Cys Phe His Thr Pro His Phe Thr Pro Leu Leu
 65 70 75 80
 Phe Ser Asp Pro Pro Leu Ala Leu
 85

<210> 589
 <211> 42
 <212> PRT
 <213> Homo sapiens

<400> 589
 Ile Ala Ser Gly Arg Ser Arg Gly Ser Lys Leu Thr Tyr Ala Cys Met
 1 5 10 15
 Arg Arg His Ser Ser Ser Ile Val Ser Pro Lys Phe Asn Ser Leu Ala
 20 25 30

Val Val Leu Gln Arg Asp Trp Phe Glu Lys
 35 40

<210> 590
 <211> 35
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (15)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (21)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 590
 Thr Ala Ser Gly Ala Ala Asn Leu Ser Ile Ser Val Lys Cys Xaa Arg
 1 5 10 15

Ala Arg Thr Pro Xaa Thr Ser Leu Ala Thr Gly His Pro Glu Leu Gln
 20 25 30

Thr Trp Arg
 35

<210> 591
 <211> 227
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (1)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 591
 Xaa Ser Phe Phe Arg Tyr Arg Gln Cys Leu Cys Val Pro Val Val Ala
 1 5 10 15

Asn Phe Lys Lys Arg Cys Phe Ser Glu Leu Ile Arg Pro Trp His Lys
 20 25 30

Thr Val Thr Ile Gly Phe Gly Val Thr Leu Cys Ala Val Pro Ile Ala
 35 40 45

Gln Lys Ser Glu Pro His Ser Leu Ser Ser Glu Ala Leu Met Arg Arg
 50 55 60

Ala Val Ser Leu Val Thr Asp Ser Thr Ser Thr Phe Leu Ser Gln Thr
 65 70 75 80

Thr Tyr Ala Leu Ile Glu Ala Ile Thr Glu Tyr Thr Lys Ala Val Tyr
 85 90 95

Thr Leu Thr Ser Leu Tyr Arg Gln Tyr Thr Ser Leu Leu Gly Lys Met
 100 105 110

Asn Ser Glu Glu Glu Asp Glu Val Trp Gln Val Ile Ile Gly Ala Arg
 115 120 125

Ala Glu Met Thr Ser Lys His Gln Glu Tyr Leu Lys Leu Glu Thr Thr
 130 135 140

Trp Met Thr Ala Val Gly Leu Ser Glu Met Ala Ala Glu Ala Ala Tyr
 145 150 155 160

Gln Thr Gly Ala Asp Gln Ala Ser Ile Thr Ala Arg Asn His Ile Gln
 165 170 175

Leu Val Lys Leu Gln Val Glu Glu Val His Gln Leu Ser Arg Lys Ala
 180 185 190

Glu Thr Lys Leu Ala Glu Ala Gln Ile Glu Glu Leu Arg Gln Lys Thr
 195 200 205

Gln Glu Glu Gly Glu Glu Arg Ala Glu Ser Glu Gln Glu Ala Tyr Leu
 210 215 220

Arg Glu Asp
 225

<210> 592

<211> 178

<212> PRT

<213> Homo sapiens

<400> 592

Arg Gln Arg Lys Ile Gln Lys Asp Arg Leu Val Ala Glu Phe Thr Thr
 1 5 10 15

Ser Leu Thr Asn Phe Gln Lys Val Gln Arg Gln Ala Ala Glu Arg Glu
 20 25 30

Lys Glu Phe Val Ala Arg Val Arg Ala Ser Ser Arg Val Ser Gly Ser
35 40 45

Phe Pro Glu Asp Ser Ser Lys Glu Arg Asn Leu Val Ser Trp Glu Ser
50 55 60

Gln Thr Gln Pro Gln Val Gln Val Gln Asp Glu Glu Ile Thr Glu Asp
65 70 75 80

Asp Leu Arg Leu Ile His Glu Arg Glu Ser Ser Ile Arg Gln Leu Glu
85 90 95

Ala Asp Ile Met Asp Ile Asn Glu Ile Phe Lys Asp Leu Gly Met Met
100 105 110

Ile His Glu Gln Gly Asp Val Ile Asp Ser Ile Glu Ala Asn Val Glu
115 120 125

Asn Ala Glu Val His Val Gln Gln Ala Asn Gln Gln Leu Ser Arg Ala
130 135 140

Ala Asp Tyr Gln Arg Lys Ser Arg Lys Thr Leu Cys Ile Ile Ile Leu
145 150 155 160

Ile Leu Val Ile Gly Val Ala Ile Ile Ser Leu Ile Ile Trp Gly Leu
165 170 175

Asn His

<210> 593

<211> 94

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 593

Met Ala Thr Ser Thr Ser Thr Glu Ala Lys Ser Ala Ser Xaa Trp Asn
1 5 10 15

Tyr Phe Phe Leu Tyr Asp Gly Ser Lys Val Lys Glu Glu Gly Asp Pro
20 25 30

Thr Arg Ala Gly Ile Cys Tyr Phe Tyr Pro Ser Gln Thr Leu Leu Asp
35 40 45

Gln Gln Glu Leu Leu Cys Gly Gln Ile Ala Gly Val Val Arg Cys Val
 50 55 60

Ser Asp Ile Ser Asp Ser Pro Pro Thr Leu Val Arg Leu Arg Lys Leu
 65 70 75 80

Lys Phe Ala Ile Lys Val Asp Gly Asp Tyr Leu Trp Val Ser
 85 90

<210> 594

<211> 132

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (94)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 594

Thr Asn Arg Ala Gly Ile Cys Leu Leu Asp Leu Ser Cys Gly Val Pro
 1 5 10 15

Leu Leu Leu Gly Glu Ser Leu Gly Ile Lys Asn Asn His Gln Pro Gly
 20 25 30

Lys Leu Leu Cys Phe Leu Ala Asp Val Ile Pro His Trp Tyr Arg Cys
 35 40 45

Tyr Ser Val Leu Gly Gly Ser Ala Gly Lys Pro Gly Gly Thr Ser Val
 50 55 60

Ser Val Met Lys Pro Leu Thr Ala Phe Leu Thr Glu Glu Pro Ser Val
 65 70 75 80

Ile Tyr Trp Gly Arg Ser Ser Val Glu Leu Ser Ala Leu Xaa Arg Lys
 85 90 95

His Val Glu Glu Gly Arg Arg Arg Phe Pro Cys Trp Ala Cys Phe Val
 100 105 110

Glu Gly Gln Glu Gln Gln Val Met Cys Thr Cys Arg Cys Ser Thr Ser
 115 120 125

Leu Cys Phe Pro
 130

<210> 595
<211> 97
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (38)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 595
Ser His Phe Tyr Cys Asn Ser Phe Ser Phe Ser Arg Ala Gln Ile Asp
1 5 10 15
Gln Ala Ala Val Pro Tyr Ser Ala Gly Gln Asp Tyr Ser Ser Ile Pro
20 25 30
Ala Ser Ser Thr Gln Xaa Arg Val Trp Gly Gly Leu Phe Cys Ala Cys
35 40 45
Ser Pro His Leu Thr Leu Gly Cys His His Leu Trp Arg Leu Leu Phe
50 55 60
Gly Met Met Leu Pro Leu Ala Phe Ser Cys Tyr His Gly Leu Gly Arg
65 70 75 80
Lys His Gly Phe Gln Ile Ile Trp Glu Leu Leu Ala Met Val Pro Pro
85 90 95

Ser

<210> 596
<211> 510
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (30)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (62)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (117)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (299)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 596

Tyr Ser Ser Ser Ser Glu Glu Val Glu Ser Ser Glu Asp Asp Glu Glu
 1 5 10 15

Glu Gly Glu Gly Gly Pro Ala Glu Gly Ser Arg Asp Thr Xaa Gly Gly
 20 25 30

Arg Ser Asp Gly Asp Thr Asp Ser Val Thr Pro Trp Trp Ser Thr Thr
 35 40 45

Ser Arg Arg Ser Pro Gly Pro Ser Pro His Thr Gly Arg Xaa Pro Trp
 50 55 60

Trp Ser Ser Ala Pro Leu Lys Arg Ser Gly Thr Cys Cys Met Leu Thr
 65 70 75 80

Ala Met Gly Thr Gln Thr Cys Leu Thr Trp Ser Ser Pro Ala Thr His
 85 90 95

Pro Pro Arg Thr Ala Lys Ala Lys Ala His Pro Arg Arg Met Gly Val
 100 105 110

Val Asp Tyr Gln Xaa Arg Gly Leu Val Lys Ala Pro Gly Lys Ser Ser
 115 120 125

Phe Thr Met Phe Val Asp Leu Gly Ile Tyr Gln Pro Gly Gly Ser Gly
 130 135 140

Asp Ser Ile Pro Ile Thr Ala Leu Val Gly Gly Glu Gly Thr Arg Phe
 145 150 155 160

Asp Gln Leu Gln Tyr Asp Val Arg Lys Gly Ser Val Val Asn Val Asn
 165 170 175

Pro Thr Asn Thr Arg Ala His Ser Glu Thr Pro Glu Ile Arg Lys Tyr
 180 185 190

Lys Lys Arg Phe Asn Ser Glu Ile Leu Cys Ala Ala Leu Trp Gly Val
 195 200 205

Asn Leu Leu Val Gly Thr Glu Asn Gly Leu Met Leu Leu Asp Arg Ser
 210 215 220

Gly Gln Gly Lys Val Tyr Gly Leu Ile Gly Arg Arg Arg Phe Gln Gln
 225 230 235 240
 Met Asp Val Leu Glu Gly Leu Asn Leu Leu Ile Thr Ile Ser Gly Lys
 245 250 255
 Arg Asn Lys Leu Arg Val Tyr Tyr Leu Ser Trp Leu Arg Asn Lys Ile
 260 265 270
 Leu His Asn Asp Pro Glu Val Glu Lys Lys Gln Gly Trp Thr Thr Val
 275 280 285
 Gly Asp Met Glu Gly Cys Gly His Tyr Arg Xaa Val Lys Tyr Glu Arg
 290 295 300
 Ile Lys Phe Leu Val Ile Ala Leu Lys Ser Ser Val Glu Val Tyr Ala
 305 310 315 320
 Trp Ala Pro Lys Pro Tyr His Lys Phe Met Ala Phe Lys Ser Phe Ala
 325 330 335
 Asp Leu Pro His Arg Pro Leu Leu Val Asp Leu Thr Val Glu Glu Gly
 340 345 350
 Gln Arg Leu Lys Val Ile Tyr Gly Ser Ser Ala Gly Phe His Ala Val
 355 360 365
 Asp Val Asp Ser Gly Asn Ser Tyr Asp Ile Tyr Ile Pro Val His Ile
 370 375 380
 Gln Ser Gln Ile Thr Pro His Ala Ile Ile Phe Leu Pro Asn Thr Asp
 385 390 395 400
 Gly Met Glu Met Leu Leu Cys Tyr Glu Asp Glu Gly Val Tyr Val Asn
 405 410 415
 Thr Tyr Gly Arg Ile Ile Lys Asp Val Val Leu Gln Trp Gly Glu Met
 420 425 430
 Pro Thr Ser Val Ala Tyr Ile Cys Ser Asn Gln Ile Met Gly Trp Gly
 435 440 445
 Glu Lys Ala Ile Glu Ile Arg Ser Val Glu Thr Gly His Leu Asp Gly
 450 455 460
 Val Phe Met His Lys Arg Ala Gln Arg Leu Lys Phe Leu Cys Glu Arg
 465 470 475 480
 Asn Asp Lys Val Phe Phe Ala Ser Val Arg Ser Gly Gly Ser Ser Gln
 485 490 495

537

Val Tyr Phe Met Thr Leu Asn Arg Asn Cys Ile Met Asn Trp
500 505 510

<210> 597

<211> 90

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 597

Leu Ile Ser Asn Arg Asn Ser Val Phe Ser Ser Thr Val Asn Val Gly
1 5 10 15

Ser Lys His Ser Gly Thr Cys Arg Thr Tyr Lys Phe Val Thr Val Ile
20 25 30

Asp Val Ile Met Leu Xaa Xaa Asp Leu Leu Ser Glu Met Arg Thr Tyr
35 40 45

Pro Ser Tyr Tyr Glu Ser Cys Trp Gln Ser Ala Leu Ser Trp Gln Pro
50 55 60

Gln Gly Asn Gly Leu Ser Cys Arg Glu Pro Pro Gln Leu Gly Asn Lys
65 70 75 80

His Leu Ala Leu Phe Asp Ser Gly His Phe
85 90

<210> 598

<211> 184

<212> PRT

<213> Homo sapiens

<400> 598

Gly Thr Arg Ala Pro Arg Val Gln Leu Ala Arg Ser Gly Gly Arg Pro
1 5 10 15

538

Pro Arg Thr Pro Arg Pro Pro Gly Pro Pro Gly Glu Val Ile Gln Pro
 20 25 30
 Leu Pro Ile Gln Ala Ser Arg Thr Arg Arg Asn Ile Asp Ala Ser Gln
 35 40 45
 Leu Leu Asp Asp Gly Asn Gly Glu Asn Tyr Val Asp Tyr Ala Asp Gly
 50 55 60
 Met Glu Glu Ile Phe Gly Ser Leu Asn Ser Leu Lys Leu Glu Ile Glu
 65 70 75 80
 Gln Met Lys Arg Pro Leu Gly Thr Gln Gln Asn Pro Ala Arg Thr Cys
 85 90 95
 Lys Asp Leu Gln Leu Cys His Pro Asp Phe Pro Asp Gly Glu Tyr Trp
 100 105 110
 Val Asp Pro Asn Gln Gly Cys Ser Arg Asp Ser Phe Lys Val Tyr Cys
 115 120 125
 Asn Phe Thr Ala Gly Gly Ser Thr Cys Val Phe Pro Asp Lys Lys Ser
 130 135 140
 Glu Gly Pro Glu Ser Leu Leu Gly Pro Lys Lys Thr Arg Ala Pro Gly
 145 150 155 160
 Ser Val Asn Ser Ser Val Gly Asn Cys Ser Pro Met Trp Thr Pro Arg
 165 170 175
 Ala Thr Leu Trp Val Trp Tyr Arg
 180

<210> 599

<211> 104

<212> PRT

<213> Homo sapiens

<400> 599

Gly Arg Gly Ser Ala Lys Lys Arg Pro Leu Pro Leu Val Gly Ile Gly
 1 5 10 15
 Met Ser Lys Asn Thr Val Ser Ser Ala Arg Phe Arg Lys Val Asp Val
 20 25 30
 Asp Glu Tyr Asp Glu Asn Lys Phe Val Asp Glu Glu Asp Gly Gly Asp
 35 40 45
 Gly Gln Ala Gly Pro Asp Glu Gly Glu Val Asp Ser Cys Leu Arg Gln

539

50 55 60
 Tyr Pro Cys Ile His Arg Pro Pro His Pro Ser Pro Ala Gln Pro Ala
 65 70 75 80
 Leu Leu Leu Gly Pro Gly Ser Leu Gln Asp Pro Arg Gly Thr Gly Ala
 85 90 95
 Glu Leu Pro Ser Gln Pro Ala Ala
 100

<210> 600

<211> 122

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 600

Thr Glu Phe Lys Lys Leu Ser Lys Gly Lys Ser Leu Leu Gly Ala Phe
 1 5 10 15
 Ile Pro Arg Cys Asn Xaa Glu Gly Tyr Tyr Lys Ala Thr Gln Cys His
 20 25 30
 Gly Ser Thr Gly Gln Cys Trp Cys Val Asp Lys Tyr Gly Asn Glu Leu
 35 40 45
 Ala Gly Ser Arg Lys Gln Gly Ala Val Ser Cys Glu Glu Glu Gln Glu
 50 55 60
 Thr Ser Gly Asp Phe Gly Ser Gly Gly Ser Val Val Leu Leu Asp Asp
 65 70 75 80
 Leu Glu Tyr Glu Arg Glu Leu Gly Pro Lys Asp Lys Glu Gly Lys Leu
 85 90 95
 Arg Val His Thr Arg Ala Val Thr Glu Asp Asp Glu Asp Glu Asp Asp
 100 105 110
 Asp Lys Glu Asp Glu Val Gly Tyr Ile Trp
 115 120

<210> 601

540

<211> 306

<212> PRT

<213> Homo sapiens

<400> 601

Ala	Cys	Pro	Arg	Pro	Thr	Ala	Arg	Trp	Gln	Leu	Arg	Phe	Trp	Thr	His
1				5					10					15	
Gly	Tyr	Gly	Tyr	Arg	Arg	Ser	Gly	Arg	Asp	Lys	Tyr	Gly	Pro	Pro	Thr
			20					25					30		
Arg	Thr	Glu	Tyr	Arg	Leu	Ile	Val	Glu	Asn	Leu	Ser	Ser	Arg	Cys	Ser
		35					40					45			
Trp	Gln	Asp	Leu	Lys	Asp	Tyr	Met	Arg	Gln	Ala	Gly	Glu	Val	Thr	Tyr
		50				55						60			
Ala	Asp	Ala	His	Lys	Gly	Arg	Lys	Asn	Glu	Gly	Val	Ile	Glu	Phe	Val
65					70					75					80
Ser	Tyr	Ser	Asp	Met	Lys	Arg	Ala	Leu	Glu	Lys	Leu	Asp	Gly	Thr	Glu
				85					90					95	
Val	Asn	Gly	Arg	Lys	Ile	Arg	Leu	Val	Glu	Asp	Lys	Pro	Gly	Ser	Arg
			100					105					110		
Arg	Arg	Arg	Ser	Tyr	Ser	Arg	Ser	Arg	Ser	His	Ser	Arg	Ser	Arg	Ser
			115				120					125			
Arg	Ser	Arg	His	Ser	Arg	Lys	Ser	Arg	Ser	Arg	Ser	Gly	Ser	Ser	Lys
		130				135					140				
Ser	Ser	His	Ser	Lys	Ser	Arg	Ser	Arg	Ser	Arg	Ser	Gly	Ser	Arg	Ser
145				150					155					160	
Arg	Ser	Lys	Ser	Arg	Ser	Arg	Ser	Gln	Ser	Arg	Ser	Arg	Ser	Lys	Lys
				165				170						175	
Glu	Lys	Ser	Arg	Ser	Pro	Ser	Lys	Asp	Lys	Ser	Arg	Ser	Arg	Ser	His
			180					185					190		
Ser	Ala	Gly	Lys	Ser	Arg	Ser	Lys	Ser	Lys	Asp	Gln	Ala	Glu	Glu	Lys
		195					200					205			
Ile	Gln	Asn	Asn	Asp	Asn	Val	Gly	Lys	Pro	Lys	Ser	Arg	Ser	Pro	Ser
		210				215					220				
Arg	His	Lys	Ser	Lys	Ser	Lys	Ser	Arg	Ser	Arg	Ser	Gln	Glu	Arg	Arg
225				230						235				240	
Val	Glu	Glu	Glu	Lys	Arg	Gly	Ser	Val	Ser	Arg	Gly	Arg	Ser	Gln	Glu

[illegible]

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<210> 602
<211> 166
<212> PRT
<213> Homo sapiens
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<220>  
<221> SITE  
<222> (9)  
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>  
<221> SITE  
<222> (56)  
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>
<221> SITE
<222> (166)
<223> Xaa equals any of the naturally occurring L-amino acids
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<400> 602
Arg Thr Ile Leu Gly Lys Cys Met Xaa Gln Thr Asn Ser Thr Phe Thr
  1                      5                      10                      15

Phe Thr Thr Cys Arg Ile Leu His Pro Ser Asp Glu Leu Thr Arg Val
      20                      25                      30

Thr Pro Ser Leu Asn Ser Ala Pro Thr Pro Ala Cys Gly Ser Thr Ser
      35                      40                      45

His Leu Lys Ser Thr Pro Val Xaa Thr Pro Cys Thr Pro Arg Arg Leu
      50                      55                      60

Ser Leu Ala Glu Ser Phe Thr Asn Thr Arg Glu Ser Thr Thr Thr Met
      65                      70                      75                      80

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Ser Thr Ser Leu Gly Leu Val Trp Leu Leu Lys Glu Arg Gly Ile Ser
 85 90 95
 Ala Ala Val Tyr Asp Pro Gln Ser Trp Asp Arg Ala Gly Arg Gly Ser
 100 105 110
 Leu Leu His Ser Tyr Thr Pro Lys Met Ala Val Ile Pro Ser Thr Pro
 115 120 125
 Pro Asn Ser Pro Met Gln Thr Pro Thr Ser Ser Pro Pro Ser Phe Glu
 130 135 140
 Phe Lys Cys Thr Ser Pro Pro Tyr Asp Asn Phe Leu Ala Ser Lys Pro
 145 150 155 160
 Arg Arg Leu His Pro Xaa
 165

<210> 603

<211> 128

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (88)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 603

Pro Pro Ala Arg Ala Pro Glu Cys Ser Pro Ser Gly Ser Leu Leu Gly
 1 5 10 15

Ser Pro Leu Trp Arg Pro Cys Pro Arg Val Leu Leu Pro Arg Gly Leu
 20 25 30

Leu Cys Ile Arg Arg Leu Arg Leu Gln Gly Tyr Pro Ala Arg Leu Pro
 35 40 45

Ser Pro Arg Ala Glu Phe Ala Leu Leu Pro Glu Ser Phe Glu Arg Arg
 50 55 60

Thr Asn Phe Trp Gln Asp Gly Asn Leu Asp Glu Pro Val Arg Ser Arg
 65 70 75 80

Thr Pro Leu Ile Ser Gln Ala Xaa Arg His Pro His Leu Leu Gly Lys
 85 90 95

Glu Gly Arg Gln Leu Val Pro Asp Leu Gly Glu Gln Leu Gln Thr Ala

	100		105		110
Cys	Leu	Glu	Gln	Pro	Pro
	115			Tyr	Ser
				Ser	Leu
				Ala	Gly
					Lys
					Glu
					Gly
					Thr
					125

<210> 604

<211> 595

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (57)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (551)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 604

Gly	His	Glu	Asn	Trp	Leu	Ser	Pro	Thr	Trp	Tyr	Cys	Ser	Gly	Val	Ala
1					5				10					15	

Gly	Xaa	Gln	Ala	Ala	Thr	Gly	Phe	Xaa	Val	Asp	Pro	Val	Ser	Asn	Leu
			20					25					30		

Arg	Leu	Pro	Val	Glu	Glu	Ala	Tyr	Lys	Arg	Gly	Leu	Val	Xaa	Ile	Glu
	35							40					45		

Phe	Lys	Glu	Lys	Leu	Leu	Ser	Ala	Xaa	Arg	Ala	Val	Thr	Gly	Tyr	Asn
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

50	55	60
Asp Pro Glu Thr Gly Asn Ile Ile Ser Leu Phe Gln Ala Met Asn Lys		
65	70	75 80
Glu Leu Ile Glu Lys Gly His Gly Ile Arg Leu Leu Glu Ala Gln Ile		
	85	90 95
Ala Thr Gly Gly Ile Ile Asp Pro Lys Glu Ser His Arg Leu Pro Val		
	100	105 110
Asp Ile Ala Tyr Lys Arg Gly Tyr Phe Asn Glu Glu Leu Ser Glu Ile		
	115	120 125
Leu Ser Asp Pro Ser Asp Asp Thr Lys Gly Phe Phe Asp Pro Asn Thr		
	130	135 140
Glu Glu Asn Leu Thr Tyr Leu Gln Leu Lys Glu Arg Cys Ile Lys Asp		
145	150	155 160
Glu Glu Thr Gly Leu Cys Leu Leu Pro Leu Lys Glu Lys Lys Lys Gln		
	165	170 175
Val Gln Thr Ser Gln Lys Asn Thr Leu Arg Lys Arg Arg Val Val Ile		
	180	185 190
Val Asp Pro Glu Thr Asn Lys Glu Met Ser Val Gln Glu Ala Tyr Lys		
	195	200 205
Lys Gly Leu Ile Asp Tyr Glu Thr Phe Lys Glu Leu Cys Glu Gln Glu		
	210	215 220
Cys Glu Trp Glu Glu Ile Thr Ile Thr Gly Ser Asp Gly Ser Thr Arg		
225	230	235 240
Val Val Leu Val Asp Arg Lys Thr Gly Ser Gln Tyr Asp Ile Gln Asp		
	245	250 255
Ala Ile Asp Lys Gly Leu Val Asp Arg Lys Phe Phe Asp Gln Tyr Arg		
	260	265 270
Ser Gly Ser Leu Ser Leu Thr Gln Phe Ala Asp Met Ile Ser Leu Lys		
	275	280 285
Asn Gly Val Gly Thr Ser Ser Ser Met Gly Ser Gly Val Ser Asp Asp		
	290	295 300
Val Phe Ser Ser Ser Arg His Glu Ser Val Ser Lys Ile Ser Thr Ile		
305	310	315 320
Ser Ser Val Arg Asn Leu Thr Ile Arg Ser Ser Ser Phe Ser Asp Thr		

545

	325		330		335
Leu Glu Glu Ser Ser Pro Ile Ala Ala Ile Phe Asp Thr Glu Asn Leu					
	340		345		350
Glu Lys Ile Ser Ile Thr Glu Gly Ile Glu Arg Gly Ile Val Asp Ser					
	355		360		365
Ile Thr Gly Gln Arg Leu Leu Glu Ala Gln Ala Cys Thr Gly Gly Ile					
	370		375		380
Ile His Pro Thr Thr Gly Gln Lys Leu Ser Leu Gln Asp Ala Val Ser					
	385		390		395
Gln Gly Val Ile Asp Gln Asp Met Ala Thr Arg Leu Lys Pro Ala Gln					
		405		410	415
Lys Ala Phe Ile Gly Phe Glu Gly Val Lys Gly Lys Lys Lys Met Ser					
	420		425		430
Ala Ala Glu Ala Val Lys Glu Lys Trp Leu Pro Tyr Glu Ala Gly Gln					
	435		440		445
Arg Phe Leu Glu Phe Gln Tyr Leu Thr Gly Gly Leu Val Asp Pro Glu					
	450		455		460
Val His Gly Arg Ile Ser Thr Glu Glu Ala Ile Arg Lys Gly Phe Ile					
	465		470		475
Asp Gly Arg Ala Ala Gln Arg Leu Gln Asp Thr Ser Ser Tyr Ala Lys					
		485		490	495
Ile Leu Thr Cys Pro Lys Thr Lys Leu Lys Ile Ser Tyr Lys Asp Ala					
	500		505		510
Ile Asn Arg Ser Met Val Glu Asp Ile Thr Gly Leu Arg Leu Leu Glu					
	515		520		525
Ala Ala Ser Val Ser Ser Lys Gly Leu Pro Ser Pro Tyr Asn Met Ser					
	530		535		540
Ser Ala Pro Gly Ser Arg Xaa Gly Ser Arg Ser Gly Ser Arg Ser Gly					
	545		550		555
Ser Arg Ser Gly Ser Arg Ser Gly Ser Arg Arg Gly Ser Phe Asp Ala					
		565		570	575
Thr Gly Asn Ser Ser Tyr Ser Tyr Ser Tyr Ser Phe Ser Ser Ser Ser					
	580		585		590
Ile Gly His					

546

595

<210> 605

<211> 212

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (76)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 605

Ala Pro Thr Val Ser Leu Val Trp Gln Val Phe Tyr Tyr Ser Thr Ser
 1 5 10 15

Ile Phe Glu Lys Ala Gly Val Gln Gln Pro Val Tyr Ala Thr Ile Gly
 20 25 30

Ser Gly Ile Val Asn Thr Ala Phe Thr Val Val Ser Leu Phe Val Val
 35 40 45

Glu Arg Ala Gly Arg Arg Thr Leu His Leu Ile Gly Leu Ala Gly Met
 50 55 60

Ala Gly Cys Ala Ile Leu Met Thr Ile Ala Leu Xaa Leu Leu Glu Gln
 65 70 75 80

Leu Pro Trp Met Ser Tyr Leu Ser Ile Val Ala Ile Phe Gly Phe Val
 85 90 95

Ala Phe Phe Glu Val Gly Pro Gly Pro Ile Pro Trp Phe Ile Val Ala
 100 105 110

Glu Leu Phe Ser Gln Gly Pro Arg Pro Ala Ala Ile Ala Val Ala Gly
 115 120 125

Phe Ser Asn Trp Thr Ser Asn Phe Ile Val Gly Met Cys Phe Gln Tyr
 130 135 140

Val Glu Gln Leu Cys Gly Pro Tyr Val Phe Ile Ile Phe Thr Val Leu
 145 150 155 160

Leu Val Leu Phe Phe Ile Phe Thr Tyr Phe Lys Val Pro Glu Thr Lys
 165 170 175

Gly Arg Thr Phe Asp Glu Ile Ala Ser Gly Phe Arg Gln Gly Gly Ala
 180 185 190

Ser Gln Ser Asp Lys Thr Pro Glu Glu Leu Phe His Pro Leu Gly Ala
195 200 205

Asp Ser Gln Val
210

<210> 606
<211> 83
<212> PRT
<213> Homo sapiens

<400> 606
Asn Gln Glu Leu Thr Phe Pro Gly Cys Arg Val Ser Ile Pro Pro Phe
1 5 10 15
Leu Met Thr Ser Arg Met Phe Leu Thr Arg Lys Pro Thr Thr Phe Pro
20 25 30
Glu Ser Pro Ser Ser Trp Trp Val Glu Lys Cys Ser Pro Arg Cys Ala
35 40 45
Trp Phe Pro Ser His Val Pro Val Phe Lys Asp Ser Phe Thr Leu Val
50 55 60
Ser Glu Leu Lys Cys Cys Leu Leu Lys Gly Phe Gln Glu Arg Leu Cys
65 70 75 80
Lys Gly Leu

<210> 607
<211> 136
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (25)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (114)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 607
Ala Ala Gly Leu Val Ala Val Leu Ala Thr Val Ser Tyr Leu Pro Val

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      1             5             10             15
Pro Leu Tyr Leu Gly Asp Pro Ser Xaa Cys Thr Leu Leu Thr Asn Gly
      20             25             30
Trp Ser Ala Gly Glu Lys Ser Leu Cys Arg Pro Pro Ser Lys Pro Ser
      35             40             45
Val Cys Ala His Gly Ile Ser Lys Met Gly His Cys Cys Val Gln Asn
      50             55             60
Pro Gly Ser Ser Phe Cys Leu Gln Leu Leu Ser Leu Asp Ala Pro Glu
      65             70             75             80
Thr Ile Gln Ala Ser Phe Pro Ile Leu Pro Leu Cys Phe Ala Phe Tyr
      85             90             95
Pro Ser Thr Ser Ile Thr Ala Phe Ser Ser Phe Gln Asn Ser Leu Phe
      100            105            110
Leu Xaa Leu Phe Phe Met Ile Thr Lys Leu Leu Leu Pro Pro Trp Lys
      115            120            125
Ile Thr Ala Ile Asp Ala Cys Met
      130            135

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<210> 608

<211> 378

<212> PRT

<213> Homo sapiens

<400> 608

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Arg Arg Tyr Ser Ala Asp Ser Val Trp Ile Asp Trp Lys Gly Leu Arg
  1             5             10             15
Glu Tyr Leu Gly Ser Met Val Ala His Asp Glu Thr Gly Gly Leu Leu
      20             25             30
Pro Ile Lys Arg Thr Ile Arg Val Leu Asp Val Asn Asn Gln Ser Phe
      35             40             45
Arg Glu Gln Glu Glu Pro Ser Asn Lys Arg Val Arg Pro Leu Ala Arg
      50             55             60
Val Thr Ser Leu Ala Asn Leu Ile Ser Pro Val Arg Asn Gly Ala Val
      65             70             75             80
Arg Arg Phe Gly Gln Thr Ile Gln Ser Phe Thr Leu Arg Gly Asp His
      85             90             95

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Arg Ser Pro Ala Ser Ala Gln Lys Phe Ser Ser Arg Ser Thr Val Pro
 100 105 110
 Thr Pro Ala Lys Arg Arg Ser Ser Ala Leu Trp Ser Glu Met Leu Asp
 115 120 125
 Ile Thr Met Lys Glu Ser Leu Thr Thr Arg Glu Ile Arg Arg Gln Glu
 130 135 140
 Ala Ile Tyr Glu Met Ser Arg Gly Glu Gln Asp Leu Ile Glu Asp Leu
 145 150 155 160
 Lys Leu Ala Arg Lys Ala Tyr His Asp Pro Met Leu Lys Leu Ser Ile
 165 170 175
 Met Ser Glu Glu Glu Leu Thr His Ile Phe Gly Asp Leu Asp Ser Tyr
 180 185 190
 Ile Pro Leu His Glu Asp Leu Leu Thr Arg Ile Gly Glu Ala Thr Lys
 195 200 205
 Pro Asp Gly Thr Val Glu Gln Ile Gly His Ile Leu Val Ser Trp Leu
 210 215 220
 Pro Arg Leu Asn Ala Tyr Arg Gly Tyr Cys Ser Asn Gln Leu Ala Ala
 225 230 235 240
 Lys Ala Leu Leu Asp Gln Lys Lys Gln Asp Pro Arg Val Gln Asp Phe
 245 250 255
 Leu Gln Arg Cys Leu Glu Ser Pro Phe Ser Arg Lys Leu Asp Leu Trp
 260 265 270
 Ser Phe Leu Asp Ile Pro Arg Ser Arg Leu Val Lys Tyr Pro Leu Leu
 275 280 285
 Leu Lys Glu Ile Leu Lys His Thr Pro Lys Glu His Pro Asp Val Gln
 290 295 300
 Leu Leu Glu Asp Ala Ile Leu Ile Ile Gln Gly Val Leu Ser Asp Ile
 305 310 315 320
 Asn Leu Lys Lys Gly Glu Ser Glu Cys Gln Tyr Tyr Ile Asp Lys Leu
 325 330 335
 Glu Tyr Leu Asp Glu Lys Gln Arg Asp Pro Arg Ile Glu Ala Ser Lys
 340 345 350
 Val Leu Leu Cys His Gly Glu Leu Arg Thr Arg Val Asp Ile Asn Phe
 355 360 365

550

Thr Phe Ser Cys Phe Lys Thr Ser Trp Phe
370 375

<210> 609
<211> 501
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (29)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (30)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 609
Pro Pro Gln Pro Gln Leu Leu Pro Gln Arg Lys Lys Lys Lys Val Lys
1 5 10 15
Met Ser Leu Arg Phe Trp Lys Ser Arg Pro Val Gly Xaa Xaa Gln Lys
20 25 30
Arg Arg Glu Glu Val Asn Gln Arg Asn Val Pro Gly Ile Asp Ser Ala
35 40 45
Tyr Leu Ala Met Asp Thr Glu Glu Gly Val Glu Val Val Trp Asn Glu
50 55 60
Val Gln Phe Ser Glu Arg Lys Asn Tyr Lys Leu Gln Glu Glu Lys Val
65 70 75 80
Arg Ala Val Phe Asp Asn Leu Ile Gln Leu Glu His Leu Asn Ile Val
85 90 95
Lys Phe His Lys Tyr Trp Ala Asp Ile Lys Glu Asn Lys Ala Arg Val
100 105 110
Ile Phe Ile Thr Glu Tyr Met Ser Ser Gly Ser Leu Lys Gln Phe Leu
115 120 125
Lys Lys Thr Lys Lys Asn His Lys Thr Met Asn Glu Lys Ala Trp Lys
130 135 140
Arg Trp Cys Thr Gln Ile Leu Ser Ala Leu Ser Tyr Leu His Ser Cys
145 150 155 160

Asp Pro Pro Ile Ile His Gly Asn Leu Thr Cys Asp Thr Ile Phe Ile
 165 170 175
 Gln His Asn Gly Leu Ile Lys Ile Gly Ser Val Ala Pro Asp Thr Ile
 180 185 190
 Asn Asn His Val Lys Thr Cys Arg Glu Glu Gln Lys Asn Leu His Phe
 195 200 205
 Phe Ala Pro Glu Tyr Gly Glu Val Thr Asn Val Thr Thr Ala Val Asp
 210 215 220
 Ile Tyr Ser Phe Gly Met Cys Ala Leu Glu Met Ala Val Leu Glu Ile
 225 230 235 240
 Gln Gly Asn Gly Glu Ser Ser Tyr Val Pro Gln Glu Ala Ile Ser Ser
 245 250 255
 Ala Ile Gln Leu Leu Glu Asp Pro Leu Gln Arg Glu Phe Ile Gln Lys
 260 265 270
 Cys Leu Gln Ser Glu Pro Ala Arg Arg Pro Thr Ala Arg Glu Leu Leu
 275 280 285
 Phe His Pro Ala Leu Phe Glu Val Pro Ser Leu Lys Leu Leu Ala Ala
 290 295 300
 His Cys Ile Val Gly His Gln His Met Ile Pro Glu Asn Ala Leu Glu
 305 310 315 320
 Glu Ile Thr Lys Asn Met Asp Thr Ser Ala Val Leu Ala Glu Ile Pro
 325 330 335
 Ala Gly Pro Gly Arg Glu Pro Val Gln Thr Leu Tyr Ser Gln Ser Pro
 340 345 350
 Ala Leu Glu Leu Asp Lys Phe Leu Glu Asp Val Arg Asn Gly Ile Tyr
 355 360 365
 Pro Leu Thr Ala Phe Gly Leu Pro Arg Pro Gln Gln Pro Gln Gln Glu
 370 375 380
 Glu Val Thr Ser Pro Val Val Pro Pro Ser Val Lys Thr Pro Thr Pro
 385 390 395 400
 Glu Pro Ala Glu Val Glu Thr Arg Lys Val Val Leu Met Gln Cys Asn
 405 410 415
 Ile Glu Ser Val Glu Glu Gly Val Lys His His Leu Thr Leu Leu Leu
 420 425 430

Lys Leu Glu Asp Lys Leu Asn Arg His Leu Ser Cys Asp Leu Met Pro
 435 440 445
 Asn Glu Asn Ile Pro Glu Leu Ala Ala Glu Leu Val Gln Leu Gly Phe
 450 455 460
 Ile Ser Glu Ala Asp Gln Ser Arg Leu Thr Ser Leu Leu Glu Glu Thr
 465 470 475 480
 Leu Asn Lys Phe Asn Phe Ala Arg Asn Ser Thr Leu Asn Ser Ala Ala
 485 490 495
 Val Thr Val Ser Ser
 500

<210> 610
 <211> 77
 <212> PRT
 <213> Homo sapiens

<400> 610
 Gly Arg Val Gly Phe Ile Ile Leu Ser Trp His Ser Ser Lys Arg Thr
 1 5 10 15
 Leu Arg Trp Glu Leu Trp Gly Thr Gly Arg Arg Gly Gln Leu Gly Thr
 20 25 30
 Gly Pro Val Gly Val Ala Val Trp Gly Met Gly Val Cys Ser Leu Ala
 35 40 45
 Leu Val Leu Gly Gly Met Arg Val Lys Lys Gly Arg Gly Leu Val Arg
 50 55 60
 Asp Thr Val Trp Val Val Gly Val Val Gly Asn Ala Gly
 65 70 75

<210> 611
 <211> 243
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (185)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (237)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (238)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (243)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 611

Glu	Gly	Glu	Lys	Ile	Ser	Ala	Asn	Glu	Asn	Ser	Leu	Ala	Val	Arg	Ser
1				5					10					15	

Thr	Pro	Ala	Glu	Asp	Asp	Ser	Arg	Asp	Ser	Gln	Val	Lys	Ser	Glu	Val
			20					25					30		

Gln	Gln	Pro	Val	His	Pro	Lys	Pro	Leu	Ser	Pro	Asp	Ser	Arg	Ala	Ser
		35					40					45			

Ser	Leu	Ser	Glu	Ser	Ser	Pro	Pro	Lys	Ala	Met	Lys	Lys	Phe	Gln	Ala
	50					55					60				

Pro	Ala	Arg	Glu	Thr	Cys	Val	Glu	Cys	Gln	Lys	Thr	Val	Tyr	Pro	Met
65					70					75					80

Glu	Arg	Leu	Leu	Ala	Asn	Gln	Gln	Val	Phe	His	Ile	Ser	Cys	Phe	Arg
				85					90					95	

Cys	Ser	Tyr	Cys	Asn	Asn	Lys	Leu	Ser	Leu	Gly	Thr	Tyr	Ala	Ser	Leu
			100				105						110		

His	Gly	Arg	Ile	Tyr	Cys	Lys	Pro	His	Phe	Asn	Gln	Leu	Phe	Lys	Ser
	115						120					125			

Lys	Gly	Asn	Tyr	Asp	Glu	Gly	Phe	Gly	His	Arg	Pro	His	Lys	Asp	Leu
	130					135					140				

Trp	Ala	Ser	Lys	Asn	Glu	Asn	Glu	Glu	Ile	Leu	Glu	Arg	Pro	Ala	Gln
145				150						155					160

Leu	Ala	Asn	Ala	Arg	Glu	Thr	Pro	His	Ser	Pro	Gly	Val	Glu	Asp	Ala
				165					170					175	

Pro	Ile	Ala	Lys	Val	Gly	Val	Leu	Xaa	Ala	Ser	Met	Glu	Ala	Lys	Ala
			180					185						190	

Ser Ser Gln Gln Glu Lys Glu Asp Lys Pro Ala Glu Thr Lys Lys Leu
 195 200 205

Arg Ile Ala Trp Pro Pro Pro Thr Glu Leu Gly Ser Ser Gly Ser Ala
 210 215 220

Leu Glu Glu Gly Ile Lys Met Ser Lys Pro Lys Trp Xaa Xaa Glu Asp
 225 230 235 240

Glu Ser Xaa

<210> 612

<211> 115

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 612

Met Arg Thr Asn Ser Phe Ala Glu Asp Leu Asp Leu Glu Gly Glu Thr
 1 5 10 15

Leu Leu Thr Pro Ile Thr His Ile Ser Gln Leu Arg Glu His His Arg
 20 25 30

Ala Thr Ile Lys Val Ile Xaa Arg Met Gln Tyr Phe Val Ala Lys Lys
 35 40 45

Lys Phe Gln Gln Ala Arg Lys Pro Tyr Asp Val Arg Asp Val Ile Glu
 50 55 60

Gln Tyr Ser Gln Gly His Leu Asn Leu Met Val Arg Ile Lys Glu Leu
 65 70 75 80

Gln Arg Arg Leu Asp Gln Ser Ile Gly Lys Pro Ser Leu Phe Ile Ser
 85 90 95

Val Ser Glu Lys Ser Lys Asp Arg Gly Thr Thr Arg Ser Ala Pro Ala
 100 105 110

Gly Thr Glu
 115

<210> 613
 <211> 175
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (52)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 613
 Ile Asn Met Ala Arg Met Asn Arg Pro Ala Pro Val Glu Val Thr Tyr
 1 5 10 15
 Lys Asn Met Arg Phe Leu Ile Thr His Asn Pro Thr Asn Ala Thr Leu
 20 25 30
 Asn Lys Phe Ile Glu Glu Leu Lys Lys Tyr Gly Val Thr Thr Ile Val
 35 40 45
 Arg Val Cys Xaa Ala Thr Tyr Asp Thr Thr Leu Val Glu Lys Glu Gly
 50 55 60
 Ile His Val Leu Asp Trp Pro Phe Asp Asp Gly Ala Pro Pro Ser Asn
 65 70 75 80
 Gln Ile Val Asp Asp Trp Leu Ser Leu Val Lys Ile Lys Phe Arg Glu
 85 90 95
 Glu Pro Gly Cys Cys Ile Ala Val His Cys Val Ala Gly Leu Gly Arg
 100 105 110
 Ala Pro Val Leu Val Ala Leu Ala Leu Ile Glu Gly Gly Met Lys Tyr
 115 120 125
 Glu Asp Ala Val Gln Phe Ile Arg Gln Lys Arg Arg Gly Ala Phe Asn
 130 135 140
 Ser Lys Gln Leu Leu Tyr Leu Glu Lys Tyr Arg Pro Lys Met Arg Leu
 145 150 155 160
 Arg Phe Lys Asp Ser Asn Gly His Arg Asn Asn Cys Cys Ile Gln
 165 170 175

<210> 614
 <211> 143
 <212> PRT
 <213> Homo sapiens

<400> 614

Thr Ser Asn Thr Ser Tyr Leu Leu Leu Asp Leu Leu Ala Gln His Ile
 1 5 10 15

Thr Ile Asn Thr Cys Lys Ile Thr Cys Ile Trp Leu Tyr Phe Tyr Leu
 20 25 30

Leu Ala Pro Arg Arg Glu Lys Lys Ile Asn Phe Glu Ser Gln Leu Gly
 35 40 45

Ile Asp Ala Leu Ile Phe Gly Tyr Phe Phe Arg Ile Phe Asn Leu Leu
 50 55 60

Trp Ser Gly Leu Arg Ser Ser Val Val Ser Gly Phe Val His Lys Arg
 65 70 75 80

Lys Ala Gln Lys Leu Asn Ala His Gly Ala Cys Ala Phe Cys Ala Pro
 85 90 95

Asn Ile Trp Met Arg Phe Phe Phe Gln Ala Tyr Ser Gln Ile Cys Val
 100 105 110

Gln Asn Phe Leu Thr Phe Leu Leu Cys Ile Ile Ile Glu Phe Ile Ala
 115 120 125

Ala Asp Phe Tyr Asn Asp Ser Cys Cys His Val Ser Leu Asn Asn
 130 135 140

<210> 615

<211> 131

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 615

Pro His His His Ser Trp Leu Cys Leu Pro Pro Pro Thr Pro Ala Val
 1 5 10 15

Pro Leu Xaa Met Glu Lys Ile Leu Ile Leu Leu Val Ala Leu Ser
 20 25 30

Val Ala Tyr Ala Ala Pro Gly Pro Arg Gly Ile Ile Ile Asn Leu Glu
 35 40 45

Asn Gly Glu Leu Cys Met Asn Ser Ala Gln Cys Lys Ser Asn Cys Cys
 50 55 60
 Gln His Ser Ser Ala Leu Gly Leu Ala Arg Cys Thr Ser Met Ala Ser
 65 70 75 80
 Glu Asn Ser Glu Cys Ser Val Lys Thr Leu Tyr Gly Ile Tyr Tyr Lys
 85 90 95
 Cys Pro Cys Glu Arg Gly Leu Thr Cys Glu Gly Asp Lys Thr Ile Val
 100 105 110
 Gly Ser Ile Thr Asn Thr Asn Phe Gly Ile Cys His Asp Ala Gly Arg
 115 120 125
 Ser Lys Gln
 130

<210> 616
 <211> 162
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (1)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (137)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (148)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 616
 Xaa Arg Val Leu Leu Ala Gln Gln Glu Ala Arg Thr Glu Phe Leu Arg
 1 5 10 15
 Lys Lys Ala Arg His Gln Asn Ser Leu Pro Glu Leu Glu Ala Ala Glu
 20 25 30
 Ala Gly Ala Pro Gly Ser Gly Pro Val Asp Leu Phe Arg Glu Leu Leu
 35 40 45
 Glu Glu Gly Lys Gly Val Ile Arg Gly Asn Lys Glu Tyr Glu Glu Glu

50	55	60
Lys Arg Gln Glu Lys Glu Arg Gln Glu Lys Ala Leu Gly Ile Leu Thr		
65	70	75 80
Tyr Leu Gly Gln Ser Ala Ala Glu Ala Gln Thr Gln Pro Pro Trp Tyr		
	85	90 95
Gln Leu Pro Pro Gly Arg Gly Gly Pro Pro Pro Gly Pro Ala Pro Asp		
	100	105 110
Glu Lys Ile Lys Ser Arg Leu Asp Pro Leu Arg Glu Met Gln Lys His		
	115	120 125
Leu Gly Lys Lys Arg Gln His Gly Xaa Asp Glu Gly Ser Arg Ser Arg		
	130	135 140
Lys Glu Lys Xaa Gly Ser Glu Lys Gln Arg Pro Lys Glu Pro Pro Ser		
145	150	155 160
Leu Gly		

<210> 617

<211> 288

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (78)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (279)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 617

Gly Cys Gly Asp Ser Leu Ser Ser Gly Gly Gly Ala Cys Arg Ala Ala
1 5 10 15

Ala Ala Leu Thr Val Arg Ser Pro Ala Val Pro Cys Arg Arg Glu His
20 25 30

Ala Leu Phe His Ser Arg Asn Arg Val Pro Gln Arg Gly Gln Arg Arg
35 40 45

Leu Arg Tyr Val Ala Tyr Asn Ile His Val Asn Gly Val Leu His Cys

50	55	60
Arg Val Arg Tyr Ser Gln Leu Leu Gly Leu His Glu Gln Xaa Arg Lys		
65	70	75 80
Glu Tyr Gly Ala Asn Val Leu Pro Ala Phe Pro Pro Lys Lys Leu Phe		
	85	90 95
Ser Leu Thr Pro Ala Glu Val Glu Gln Arg Arg Glu Gln Leu Glu Lys		
	100	105 110
Tyr Met Gln Ala Val Arg Gln Asp Pro Leu Leu Gly Ser Ser Glu Thr		
	115	120 125
Phe Asn Ser Phe Leu Arg Arg Ala Gln Gln Glu Thr Gln Gln Val Pro		
	130	135 140
Thr Glu Glu Val Ser Leu Glu Val Leu Leu Ser Asn Gly Gln Lys Val		
	145	150 155 160
Leu Val Asn Val Leu Thr Ser Asp Gln Thr Glu Asp Val Leu Glu Ala		
	165	170 175
Val Ala Ala Lys Leu Asp Leu Pro Asp Asp Leu Ile Gly Tyr Phe Ser		
	180	185 190
Leu Phe Leu Val Arg Glu Lys Glu Asp Gly Ala Phe Ser Phe Val Arg		
	195	200 205
Lys Leu Gln Glu Phe Glu Leu Pro Tyr Val Ser Val Thr Ser Leu Arg		
	210	215 220
Ser Gln Glu Tyr Lys Ile Val Leu Arg Lys Ser Tyr Trp Asp Ser Ala		
	225	230 235 240
Tyr Asp Asp Asp Val Met Glu Asn Arg Val Gly Leu Asn Leu Leu Tyr		
	245	250 255
Ala Gln Thr Val Ser Asp Ile Glu Arg Gly Trp Ile Leu Val Thr Lys		
	260	265 270
Glu Gln His Arg Gln Leu Xaa Ile Ser Ala Arg Glu Lys Phe Ser Gln		
	275	280 285

<210> 618

<211> 189

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (167)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (184)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (188)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 618

Ala	Gln	Ser	Lys	Met	Ala	Ala	Leu	Arg	Ala	Leu	Cys	Gly	Phe	Arg	Gly
1				5					10					15	

Val	Ala	Ala	Gln	Val	Leu	Arg	Pro	Gly	Ala	Gly	Val	Arg	Leu	Pro	Ile
			20					25					30		

Gln	Pro	Ser	Arg	Gly	Val	Arg	Gln	Trp	Gln	Pro	Asp	Val	Glu	Trp	Ala
	35						40					45			

Gln	Gln	Phe	Gly	Gly	Ala	Val	Met	Tyr	Pro	Ser	Lys	Glu	Thr	Ala	His
	50					55						60			

Trp	Lys	Pro	Pro	Pro	Trp	Asn	Asp	Val	Asp	Pro	Pro	Lys	Asp	Thr	Ile
65					70					75					80

Val	Lys	Asn	Ile	Thr	Leu	Asn	Phe	Gly	Pro	Gln	His	Pro	Ala	Ala	His
				85					90					95	

Gly	Val	Leu	Arg	Leu	Val	Met	Glu	Leu	Ser	Gly	Glu	Met	Val	Arg	Lys
		100						105					110		

Cys	Asp	Pro	His	Ile	Gly	Leu	Leu	His	Arg	Gly	Thr	Glu	Lys	Leu	Ile
		115					120					125			

Glu	Tyr	Lys	Thr	Tyr	Leu	Gln	Ala	Leu	Pro	Tyr	Phe	Asp	Arg	Leu	Asp
	130					135					140				

Tyr	Val	Ser	Met	Met	Cys	Asn	Glu	Gln	Ala	Tyr	Phe	Ser	Ser	Cys	Gly
145						150				155					160

Glu	Val	Ala	Lys	His	Pro	Xaa	Ser	Ser	Ser	Gly	Thr	Trp	Ile	Arg	Val
				165					170					175	

Cys Leu Glu Lys Tyr Thr Phe Xaa Glu His Ile Xaa Leu
 180 185

<210> 619

<211> 245

<212> PRT

<213> Homo sapiens

<400> 619

Asp Tyr Arg Gly Ser His Gly Met Ala Phe Thr Phe Phe Glu Tyr Arg
 1 5 10 15

Ala Tyr Arg Ser Ile Ile Lys Asp Tyr Phe His Arg Gly Ala Lys Trp
 20 25 30

Thr Thr Ala Pro Lys Pro Thr Met Ala Asp Glu Leu Tyr Asn Gln Asp
 35 40 45

Tyr Pro Ile His Ser Val Glu Asp Arg His Lys Leu Ala Ala Gln Gly
 50 55 60

Lys Phe Val Thr Thr Glu Phe Glu Pro Cys Phe Asp Ala Ala Asp Phe
 65 70 75 80

Ile Arg Ala Gly Arg Asp Ile Phe Ala Gln Arg Ser Gln Val Thr Asn
 85 90 95

Tyr Leu Gly Ile Glu Trp Met Arg Arg His Leu Ala Pro Asp Tyr Arg
 100 105 110

Val His Ile Ile Ser Phe Lys Asp Pro Asn Pro Met His Ile Asp Ala
 115 120 125

Thr Phe Asn Ile Ile Gly Pro Gly Ile Val Leu Ser Asn Pro Asp Arg
 130 135 140

Pro Cys His Gln Ile Asp Leu Phe Lys Lys Ala Gly Trp Thr Ile Ile
 145 150 155 160

Thr Pro Pro Thr Pro Ile Ile Pro Asp Asp His Pro Leu Trp Met Ser
 165 170 175

Ser Lys Trp Leu Ser Met Asn Val Leu Met Leu Asp Glu Lys Arg Val
 180 185 190

Met Val Asp Ala Asn Glu Val Pro Ile Gln Lys Met Phe Glu Lys Leu
 195 200 205

Gly Ile Thr Thr Ile Lys Val Asn Ile Arg Asn Ala Asn Ser Leu Gly
210 215 220

Gly Gly Phe His Cys Trp Thr Cys Asp Val Arg Arg Arg Gly Thr Leu
225 230 235 240

Gln Ser Tyr Leu Asp
245

<210> 620

<211> 40

<212> PRT

<213> Homo sapiens

<400> 620

Asn Leu Glu His Leu Gly Gly Gly Arg Lys Tyr Pro Ser Tyr Leu Asp
1 5 10 15

Pro Tyr Phe Phe Leu Ser Ser Leu His Phe Gln Trp Lys Pro His Phe
20 25 30

Tyr Phe Arg Ile Arg Lys Leu Ser
35 40

<210> 621

<211> 82

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (30)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 621

Asn Ala Phe Ile Cys Thr Phe Arg Val Glu Ser Cys Phe Leu Leu Lys
1 5 10 15

Pro Phe Leu Ile Asp Ile Leu Arg Ala Ile Phe Leu Asn Xaa Pro Asp
20 25 30

Leu Leu Val Ser Glu Pro Ser Thr Xaa Ser Phe Pro Pro Gln Xaa Xaa
35 40 45

Gly Gly Asp Ser Glu Asn Gln Gly Arg Ala Gln Glu Lys Val Leu Ser
50 55 60

Glu His Gly Phe Ser Leu Val Thr Ser Asp Thr Ser Gln Glu Glu Gln
65 70 75 80

Thr Ser

<210> 622

<211> 249

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (61)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (103)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (147)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 622

Gly Glu Arg Glu Arg Glu Arg Ala Gly Phe Pro Ser Ile Pro Val Gly
1 5 10 15

564

Lys Ser Pro Met Val Glu Gln Ala Val Gln Thr Gly Ser Ala Asp Asn
 20 25 30
 Leu Asn Ala Lys Lys Leu Leu Pro Gly Lys Gly Thr Thr Gly Thr Xaa
 35 40 45
 Leu Asn Gly Arg Gln Ala Gln Pro Ser Ser Lys Thr Xaa Ser Asp Val
 50 55 60
 Val Gln Pro Ala Ala Val Gln Ala Gln Gly Gln Val Asn Asp Glu Asn
 65 70 75 80
 Arg Arg Pro Gln Arg Arg Arg Ser Gly Asn Arg Arg Thr Arg Asn Arg
 85 90 95
 Ser Arg Gly Gln Asn Arg Xaa Thr Asn Val Lys Glu Asn Thr Ile Lys
 100 105 110
 Phe Glu Gly Asp Phe Asp Phe Glu Ser Ala Asn Ala Gln Phe Asn Arg
 115 120 125
 Glu Glu Leu Asp Lys Glu Phe Lys Lys Lys Leu Asn Phe Lys Asp Asp
 130 135 140
 Lys Ala Xaa Lys Gly Glu Glu Lys Asp Leu Ala Val Val Thr Gln Ser
 145 150 155 160
 Ala Glu Ala Pro Ala Glu Glu Asp Leu Leu Gly Pro Asn Cys Tyr Tyr
 165 170 175
 Asp Lys Ser Lys Ser Phe Phe Asp Asn Ile Ser Ser Glu Leu Lys Thr
 180 185 190
 Ser Ser Arg Arg Thr Thr Trp Ala Glu Glu Arg Lys Leu Asn Thr Glu
 195 200 205
 Thr Phe Gly Val Ser Gly Arg Phe Leu Arg Gly Arg Ser Ser Arg Gly
 210 215 220
 Gly Phe Arg Gly Gly Arg Gly Asn Gly Thr Thr Arg Arg Asn Pro Thr
 225 230 235 240
 Ser His Arg Ala Gly Thr Gly Arg Val
 245

<210> 623

<211> 326

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (302)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 623

Arg Glu Pro Arg Ala Trp Gly Gly Gly Gly Gly Arg Gly Gly Trp Gly
1 5 10 15

Arg Arg Arg Phe Pro Gly Pro Gly Leu Gln Leu Gly Gly Glu Ala Glu
20 25 30

Pro Val Leu Pro Pro Leu Gly Ser Gly Arg Arg Ala Pro Glu Asp Gly
35 40 45

Arg Ala Ala His His Gly Ala His Leu Leu Gln Gly Asp Glu Ile Trp
50 55 60

Asn Ala Leu Thr Asp Asn Tyr Gly Asn Val Met Pro Val Asp Trp Lys
65 70 75 80

Ser Ser His Thr Arg Thr Leu His Leu Leu Thr Leu Asn Leu Ser Glu
85 90 95

Lys Gly Val Ser Asp Ser Leu Leu Phe Asp Thr Ser Asp Asp Glu Glu
100 105 110

Leu Arg Glu Gln Leu Asp Met His Ser Ile Ile Val Ser Cys Val Asn
115 120 125

Asp Glu Pro Leu Phe Thr Ala Asp Gln Val Ile Glu Glu Ile Glu Glu
130 135 140

Met Met Gln Glu Ser Pro Asp Pro Glu Asp Asp Glu Thr Pro Thr Gln
145 150 155 160

Ser Asp Arg Leu Ser Met Leu Ser Gln Glu Ile Gln Thr Leu Lys Arg
165 170 175

Ser Ser Thr Gly Ser Tyr Glu Glu Arg Val Lys Arg Leu Ser Val Ser
180 185 190

Glu Leu Asn Glu Ile Leu Glu Glu Ile Glu Thr Ala Ile Lys Glu Tyr
195 200 205

Ser Glu Glu Leu Val Gln Gln Leu Ala Leu Arg Asp Glu Leu Glu Phe
210 215 220

Glu Lys Glu Val Lys Asn Ser Phe Ile Ser Val Leu Ile Glu Val Gln

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225                230                235                240
Asn Lys Gln Lys Glu His Lys Glu Thr Ala Lys Lys Lys Lys Leu
      245                250                255
Lys Asn Gly Ser Ser Gln Asn Gly Lys Asn Glu Arg Ser His Met Pro
      260                265                270
Gly Thr Tyr Leu Thr Thr Val Ile Pro Tyr Glu Lys Lys Asn Gly Pro
      275                280                285
Pro Ser Val Glu Asp Leu Gln Ile Leu Thr Lys Ile Leu Xaa Ala Met
      290                295                300
Lys Glu Asp Ser Glu Lys Val Pro Ser Leu Leu Thr Asp Tyr Ile Leu
      305                310                315                320
Lys Val Leu Cys Pro Thr
      325

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<210> 624

<211> 245

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (108)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (112)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 624

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Glu Arg Ala Cys Xaa Gly Ala Leu Leu Gln His Leu Gly Ser Trp Asp
  1              5              10              15

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Gln Asp Cys Pro Asp Val Val Pro Thr Gly Leu Pro Lys Ser Gly Arg
  20              25              30

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His Pro Gln Pro Gly Leu Pro Asp Asn Pro Ala Gly His Arg Leu Lys
  35              40              45

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567

His Tyr Ser Asp Phe Leu Glu Arg Met Pro Arg Glu Glu Ala Thr Glu
50 55 60

Ile Glu Gln Thr Val Gln Lys Ala Ala Gln Ala Phe Asn Ser Gly Leu
65 70 75 80

Leu Cys Val Ala Cys Gly Ser Tyr Arg Arg Gly Lys Ala Thr Cys Gly
85 90 95

Asp Val Asp Val Leu Ile Thr His Pro Asp Gly Xaa Ser His Arg Xaa
100 105 110

Ile Phe Ser Arg Leu Leu Asp Ser Leu Arg Gln Glu Gly Phe Leu Thr
115 120 125

Asp Asp Leu Val Ser Gln Glu Glu Asn Gly Gln Gln Gln Lys Tyr Leu
130 135 140

Gly Val Cys Arg Leu Pro Gly Pro Gly Arg Arg His Arg Arg Leu Asp
145 150 155 160

Ile Ile Val Val Pro Tyr Ser Glu Phe Ala Cys Ala Leu Leu Tyr Phe
165 170 175

Thr Gly Ser Ala His Phe Asn Arg Ser Met Arg Ala Leu Ala Lys Thr
180 185 190

Lys Gly Met Ser Leu Ser Glu His Ala Leu Ser Thr Ala Val Val Arg
195 200 205

Asn Thr His Gly Cys Lys Val Gly Pro Gly Arg Val Leu Pro Thr Pro
210 215 220

Thr Glu Lys Asp Val Phe Arg Leu Leu Gly Leu Pro Tyr Arg Glu Pro
225 230 235 240

Ala Glu Arg Asp Trp
245

<210> 625

<211> 150

<212> PRT

<213> Homo sapiens

<400> 625

Gly Glu Arg Gly Gly Ser Pro Glu Pro Leu Arg Trp Glu Ser Pro Leu
1 5 10 15

568

Leu Gly Pro Ser Leu Pro Ser Ser Pro Lys Leu Tyr Thr Gly Cys Ser
 20 25 30
 Asp Gln Pro Thr Thr His Gln Ala Ser Pro Pro Leu Cys Pro Arg Leu
 35 40 45
 Leu Ala Pro Ala Ala Pro Gly Ser Trp Phe Ile Leu Pro Pro Leu Ser
 50 55 60
 Leu Pro Ala Ser Pro Ser Val Leu Thr Trp Leu Gln Pro Ser Ser Cys
 65 70 75 80
 Ser Pro Trp Gly Lys Ala Ala Ser Leu Leu Leu Ser Leu His Ser Leu
 85 90 95
 Ala Pro Ser Leu Ser Pro Cys Leu Cys Gln Val Pro Pro Leu Ser Gln
 100 105 110
 Ala Ser Glu Gln Pro Trp Arg Gln Glu Gly His Val Lys Ser Phe Phe
 115 120 125
 Thr Val Leu Arg Arg Gln Val Glu Gly Glu Asp Ser Gly Gly Gly Ser
 130 135 140
 Gly Thr Ile Ser Leu Leu
 145 150

<210> 626
 <211> 235
 <212> PRT
 <213> Homo sapiens

<400> 626
 Asp Gly Val Trp Val Ser Ile Arg Leu Asp Ser Thr Leu Arg Leu Tyr
 1 5 10 15
 His Ala His Thr Tyr Gln His Leu Gln Asp Val Asp Ile Glu Pro Tyr
 20 25 30
 Val Ser Lys Met Leu Gly Thr Gly Lys Leu Gly Phe Ser Phe Val Arg
 35 40 45
 Ile Thr Ala Leu Met Val Ser Cys Asn Arg Leu Trp Val Gly Thr Gly
 50 55 60
 Asn Gly Val Ile Ile Ser Ile Pro Leu Thr Glu Thr Val Ile Leu His
 65 70 75 80
 Gln Gly Arg Leu Leu Gly Leu Arg Ala Asn Lys Thr Ser Gly Val Pro

569

	85		90		95
Gly Asn Arg Pro Gly Ser Val Ile Arg Val Tyr Gly Asp Glu Asn Ser					
	100		105		110
Asp Lys Val Thr Pro Gly Thr Phe Ile Pro Tyr Cys Ser Met Ala His					
	115		120		125
Ala Gln Leu Cys Phe His Gly His Arg Asp Ala Val Lys Phe Phe Val					
	130		135		140
Ala Val Pro Gly Gln Val Ile Ser Pro Gln Ser Ser Ser Ser Gly Thr					
	145		150		155
Asp Leu Thr Gly Asp Lys Ala Gly Pro Ser Ala Gln Glu Pro Gly Ser					
	165		170		175
Gln Thr Pro Leu Lys Ser Met Leu Val Ile Ser Gly Gly Glu Gly Tyr					
	180		185		190
Ile Asp Phe Arg Met Gly Asp Glu Gly Gly Glu Ser Glu Leu Leu Gly					
	195		200		205
Glu Asp Leu Pro Leu Glu Pro Ser Val Thr Lys Ala Glu Arg Ser His					
	210		215		220
Leu Ile Val Trp Gln Val Met Tyr Gly Asn Glu					
	225		230		235

<210> 627

<211> 131

<212> PRT

<213> Homo sapiens

<400> 627

Phe Gly Thr Ser Phe Pro Ser Cys Ser Val Val Val Phe Ser Leu Leu					
1		5		10	15
Leu Leu Leu Leu Leu Arg Leu Gly Glu Pro Ser Trp Gly Arg Met Val					
	20		25		30
Cys Glu Lys Cys Glu Lys Lys Leu Gly Thr Val Ile Thr Pro Asp Thr					
	35		40		45
Trp Lys Asp Gly Ala Arg Asn Thr Thr Glu Ser Gly Gly Arg Lys Leu					
	50		55		60
Asn Glu Asn Lys Ala Leu Thr Ser Lys Lys Ala Arg Phe Asp Pro Tyr					
	65		70		75
					80

570

Gly Lys Asn Lys Phe Ser Thr Cys Arg Ile Cys Lys Ser Ser Val His
85 90 95

Gln Pro Gly Ser His Tyr Cys Gln Gly Cys Ala Tyr Lys Lys Gly Ile
100 105 110

Cys Ala Met Cys Gly Lys Lys Val Leu Asp Thr Lys Asn Tyr Lys Gln
115 120 125

Thr Ser Val
130

<210> 628

<211> 64

<212> PRT

<213> Homo sapiens

<400> 628

Leu Leu Met Val Thr Phe Leu Val Cys Ser Arg Lys Thr Cys Arg Leu
1 5 10 15

Tyr Ala Arg Tyr Val Asn Lys Asp Cys Gly Leu Lys Gly Glu Lys Leu
20 25 30

Ile Ile His Thr His Asp Lys Asn Ser Tyr Phe Leu Phe Leu Cys Leu
35 40 45

Phe Ile Gln Lys Gln Val Arg Ala Glu Lys Val Ser Ser Tyr Ser Thr
50 55 60

<210> 629

<211> 396

<212> PRT

<213> Homo sapiens

<400> 629

Val Gly Pro Ala Cys Glu Gln Thr Arg Pro Leu Arg Ala Pro Pro Ser
1 5 10 15

Ser Gln Asp Lys Ile Pro Gln Gln Asn Ser Glu Ser Ala Met Ala Lys
20 25 30

Pro Gln Val Val Val Ala Pro Val Leu Met Ser Lys Leu Ser Val Asn

571

35	40	45
Ala Pro Glu Phe Tyr Pro Ser Gly Tyr Ser Ser Ser Tyr Thr Glu Ser		
50	55	60
Tyr Glu Asp Gly Cys Glu Asp Tyr Pro Thr Leu Ser Glu Tyr Val Gln		
65	70	75
Asp Phe Leu Asn His Leu Thr Glu Gln Pro Gly Ser Phe Glu Thr Glu		
	85	90
Ile Glu Gln Phe Ala Glu Thr Leu Asn Gly Cys Val Thr Thr Asp Asp		
	100	105
Ala Leu Gln Glu Leu Val Glu Leu Ile Tyr Gln Gln Ala Thr Ser Ile		
	115	120
Pro Asn Phe Ser Tyr Met Gly Ala Arg Leu Cys Asn Tyr Leu Ser His		
	130	140
His Leu Thr Ile Ser Pro Gln Ser Gly Asn Phe Arg Gln Leu Leu Leu		
	145	155
Gln Arg Cys Arg Thr Glu Tyr Glu Val Lys Asp Gln Ala Ala Lys Gly		
	165	170
Asp Glu Val Thr Arg Lys Arg Phe His Ala Phe Val Leu Phe Leu Gly		
	180	190
Glu Leu Tyr Leu Asn Leu Glu Ile Lys Gly Thr Asn Gly Gln Val Thr		
	195	205
Arg Ala Asp Ile Leu Gln Val Gly Leu Arg Glu Leu Leu Asn Ala Leu		
	210	220
Phe Ser Asn Pro Met Asp Asp Asn Leu Ile Cys Ala Val Lys Leu Leu		
	225	235
Lys Leu Thr Gly Ser Val Leu Glu Asp Ala Trp Lys Glu Lys Gly Lys		
	245	250
Met Asp Met Glu Glu Ile Ile Gln Arg Ile Glu Asn Val Val Leu Asp		
	260	270
Ala Asn Cys Ser Arg Asp Val Lys Gln Met Leu Leu Lys Leu Val Glu		
	275	285
Leu Arg Ser Ser Asn Trp Gly Arg Val His Ala Thr Ser Thr Tyr Arg		
	290	300
Glu Ala Thr Pro Glu Asn Asp Pro Asn Tyr Phe Met Asn Glu Pro Thr		

572

305 310 315 320
 Phe Tyr Thr Ser Asp Gly Val Pro Phe Thr Ala Ala Asp Pro Asp Tyr
 325 330 335
 Gln Glu Lys Tyr Gln Glu Leu Leu Glu Arg Glu Asp Phe Phe Pro Asp
 340 345 350
 Tyr Glu Glu Asn Gly Thr Asp Leu Ser Gly Ala Gly Asp Pro Tyr Leu
 355 360 365
 Asp Asp Ile Asp Asp Glu Met Asp Pro Glu Ile Glu Glu Ala Tyr Glu
 370 375 380
 Lys Phe Cys Leu Glu Ser Glu Arg Lys Arg Lys Gln
 385 390 395

<210> 630

<211> 189

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 630

Leu Ile Leu Gly Glu Leu Glu Lys Gly Gln Ser Gln Phe Gln Ala Leu
 1 5 10 15
 Cys Phe Val Thr Gln Leu Gln His Asn Glu Ile Ile Pro Ser Xaa Ala
 20 25 30
 Met Ala Lys Leu Arg Gln Lys Asn Pro Arg Ala Val Arg Gln Ala Glu
 35 40 45
 Glu Val Arg Gly Leu Glu His Leu His Met Asp Val Ala Val Asn Phe
 50 55 60
 Ser Gln Gly Ala Leu Leu Ser Pro His Leu His Asn Val Cys Ala Glu
 65 70 75 80
 Ala Val Asp Ala Ile Tyr Thr Arg Gln Glu Asp Val Arg Phe Trp Leu
 85 90 95
 Glu Gln Gly Val Asp Ser Ser Val Phe Glu Ala Leu Pro Lys Ala Ser
 100 105 110

Glu Gln Ala Glu Leu Pro Arg Cys Arg Gln Val Gly Asp Arg Gly Lys
115 120 125

Pro Cys Val Cys His Tyr Gly Leu Ser Leu Ala Trp Tyr Pro Cys Met
130 135 140

Leu Lys Tyr Cys His Ser Arg Asp Arg Pro Thr Pro Tyr Lys Cys Gly
145 150 155 160

Ile Arg Ser Cys Gln Lys Ser Tyr Ser Phe Asp Phe Tyr Val Pro Gln
165 170 175

Arg Gln Leu Cys Leu Trp Asp Glu Asp Pro Tyr Pro Gly
180 185

<210> 631

<211> 32

<212> PRT

<213> Homo sapiens

<400> 631

Phe Pro Leu Ala Met Ala Pro Phe Ser Thr Ser Ala Phe His Ser Asn
1 5 10 15

Ser His Arg Arg Ile Ala Arg Thr Gln Gly Val Glu Val Ala Val Ser
20 25 30

<210> 632

<211> 144

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (86)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (87)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (89)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 632

His	Val	Pro	Ala	Arg	Gln	Ser	Leu	Val	Leu	Phe	Pro	Glu	Gln	Asp	Asp
1				5					10					15	

Xaa	Lys	Arg	Thr	Leu	Leu	Asp	Pro	Thr	Leu	Lys	Ala	Glu	Gly	Xaa	Lys
			20					25					30		

Pro	Gln	Glu	Ala	Leu	Ser	Ala	Thr	Pro	Arg	Glu	Glu	His	Lys	Gly	Leu
	35						40					45			

His	Asn	Ala	Thr	His	Pro	Leu	Leu	Ala	Lys	Cys	Tyr	Pro	Asp	Gly	Gly
	50					55				60					

Gly	Cys	Glu	Gly	Ile	Ala	Pro	Ser	His	Ile	His	Ser	Leu	Cys	Gly	Leu
65				70					75					80	

Ser	Ser	Ser	Gly	Gln	Xaa	Xaa	Ala	Xaa	Ser	Gly	Leu	Ser	Ser	Leu	Cys
			85					90						95	

Ser	Val	Cys	Gly	Asp	Arg	Phe	His	Ala	Arg	Thr	Pro	Ser	Ser	Ser	Ile
			100				105						110		

Pro	His	Phe	Thr	Pro	Ser	His	Thr	Ser	Ser	Ile	Gln	Gly	Leu	Leu	Asn
	115					120						125			

Cys	Gln	Glu	Gln	Val	Leu	Glu	Phe	Pro	Ser	Pro	Ala	Glu	Ser	Phe	Ser
	130					135					140				

<210> 633

<211> 102

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 633

Gly	Cys	Thr	Lys	Thr	Ser	Cys	Val	Thr	Pro	Gln	Ser	Cys	Leu	Trp	Val
1				5					10				15		

Pro	Ser	Gln	Ser	Gln	Gly	Lys	Ser	Pro	Gly	Glu	Tyr	Xaa	Ser	Gln	Gln
		20					25						30		

Arg	Ile	Leu	Thr	Cys	Ser	Arg	Ile	Trp	Phe	Asp	Phe	Pro	Thr	Ile	Trp
	35					40					45				

Val	Asp	Ala	Leu	Pro	Val	Thr	Val	Ala	Val	Pro	Ile	Arg	Gln	Met	Lys
	50					55					60				

Gly	Ser	Ala	Pro	His	Val	Ser	Trp	Asn	Asp	Gly	Pro	Val	Phe	Arg	Asp
65					70					75					80

Leu	Thr	Glu	Pro	Thr	Ser	Lys	Thr	Ser	Glu	Asn	Arg	Lys	Lys	Glu	Glu
				85					90					95	

Asp	Thr	Gly	Ile	Asn	Ser
					100

<210> 634

<211> 70

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (67)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 634

Val	Gln	Lys	Asn	Tyr	Phe	Glu	Tyr	Leu	Asn	Ile	Cys	Cys	Ile	Phe	Phe
1				5					10				15		

Arg	Ile	Tyr	Asn	Met	Ser	Ser	Phe	Arg	Met	Gly	Ile	Tyr	Val	Cys	Leu
			20					25					30		

Pro	Thr	Phe	Thr	Val	Lys	Val	Cys	Tyr	Leu	Tyr	Met	Ser	Asn	Trp	Leu
		35					40					45			

Asn	Thr	Val	Met	Arg	Ile	Asn	Cys	Thr	Glu	Phe	Ile	Leu	Lys	Lys	Lys
	50					55					60				

Lys Lys Xaa Pro Gly Gly
65 70

<210> 635
<211> 297
<212> PRT
<213> Homo sapiens

<220>
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<222> (222)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (295)

<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (296)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 635

Arg	Thr	Asp	Pro	Glu	Glu	Glu	Asp	Ser	Glu	Thr	Thr	Ala	Ala	Gly	Val
1				5					10					15	

Thr	Val	Thr	Val	Ala	Val	Thr	Cys	Gly	Ala	Ala	Gly	Ser	Ser	Ser	Ser
			20					25					30		

Ala	Ser	Gly	Pro	Gly	Ala	Ser	Pro	Gly	Gly	Ser	Glu	Ala	Gly	Ser	Gln
		35					40					45			

Gly	Ser	Gly	Glu	Gly	Glu	Gly	Val	Gln	Leu	Thr	Ala	Ala	Gln	Glu	Leu
	50					55					60				

Met	Ile	Gln	Gln	Leu	Val	Ala	Ala	Gln	Leu	Gln	Cys	Asn	Lys	Arg	Ser
65					70					75					80

Phe	Ser	Asp	Gln	Pro	Lys	Val	Thr	Pro	Trp	Pro	Leu	Gly	Ala	Asp	Pro
				85					90					95	

Gln	Ser	Arg	Asp	Ala	Arg	Gln	Gln	Arg	Phe	Ala	His	Phe	Thr	Glu	Leu
			100					105					110		

Ala	Ile	Ile	Ser	Val	Gln	Glu	Ile	Val	Asp	Phe	Ala	Lys	Gln	Val	Pro
	115						120					125			

Gly	Phe	Leu	Gln	Leu	Gly	Arg	Glu	Asp	Gln	Ile	Ala	Leu	Leu	Lys	Ala
	130					135					140				

Ser	Thr	Ile	Glu	Ile	Met	Leu	Leu	Glu	Thr	Ala	Arg	Arg	Tyr	Asn	His
145					150					155					160

Glu	Thr	Glu	Cys	Ile	Thr	Phe	Leu	Lys	Asp	Phe	Thr	Tyr	Ser	Lys	Asp
			165						170					175	

Asp	Phe	His	Arg	Ala	Gly	Leu	Gln	Val	Glu	Phe	Ile	Asn	Pro	Ile	Phe
			180					185					190		

Glu	Phe	Ser	Arg	Ala	Met	Arg	Arg	Leu	Gly	Leu	Asp	Asp	Ala	Glu	Tyr
			195				200					205			

Ala	Leu	Leu	Ile	Ala	Ile	Asn	Ile	Phe	Ser	Ala	Asp	Arg	Xaa	Asn	Val
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

578

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      210              215              220
Gln Glu Pro Gly Arg Val Glu Ala Leu Gln Gln Pro Tyr Val Gly Gly
225              230              235              240

Ala Xaa Val Leu His Ala His Gln Glu Ala Ala Gly Pro Xaa Ala Phe
      245              250              255

Pro Arg Met Leu His Glu Ala Gly Glu Pro Ala Xaa Xaa Glu Leu Leu
      260              265              270

Cys Xaa Ser Glu Gln Val Phe Xaa Leu Xaa Gly Phe Arg Asp Lys Glu
      275              280              285

Thr Cys Arg Leu Leu Leu Xaa Xaa Asn
      290              295

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<210> 636

<211> 113

<212> PRT

<213> Homo sapiens

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<220>

<221> SITE

<222> (87)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 636

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Val Ser Ala Ala Gly Arg Ala Xaa Arg Gln Leu Gly Ala Ala Glu Pro
  1              5              10              15

Arg Glu Ala Glu Gly Ala Val Ala Ala Ala Thr Ala Thr Thr Thr Thr
      20              25              30

Pro Ala Arg Val Pro Ser Leu Phe Pro Pro Gln Pro Pro Phe Ser Ser
      35              40              45

Leu Pro Tyr Val Pro Glu Cys Gly Ser Thr Ala Ser Phe Pro Ala Ala
      50              55              60

Arg Leu Pro Pro Asp Leu Ser Ala Arg Val Gly Thr Met Ser Leu Lys
      65              70              75              80

Phe Gln Gly Lys Gln Cys Xaa Pro Thr Arg Met Asp Pro Lys Ser Ile

```

579

85 90 95
Asn Leu Asp Leu Ile Gly Asn Leu Gln His Ser Leu Gly Gly Arg Ile
100 105 110

Gln

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<210> 637
<211> 71
<212> PRT
<213> Homo sapiens
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<220>
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<222> (51)
<223> Xaa equals any of the naturally occurring L-amino acids
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<400> 637
Ser Trp Tyr Leu Phe Cys Met Asp Gly Phe Glu Phe Ser Phe Ile Ser
1 5 10 15

Asp Gln Val Leu Ser Lys Tyr Thr Val Cys His Leu His Ile Leu Ala
20 25 30

Pro Ser Phe Lys Asn Gly Leu Leu Ile Arg Asp Val Glu Arg Val Ser
35 40 45

His Ile Xaa Thr Leu Arg Asp Lys Ser Met Cys Ile Thr Asn Ile Leu
50 55 60

Cys Arg Gly Gly Val Leu Arg
65 70

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<210> 638
<211> 233
<212> PRT
<213> Homo sapiens
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<220>  
<221> SITE  
<222> (180)  
<223> Xaa equals any of the naturally occurring L-amino acids
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<400> 638
Tyr Glu Val Leu Arg Asp Asn Thr Leu Val Thr Leu Ala Asn Ile Ser
1 5 10 15

580

Gly Gln Leu Asp Leu Ser Ala Tyr Thr Glu Ser Ile Cys Leu Pro Ile
 20 25 30
 Leu Asp Gly Leu Leu His Trp Met Val Cys Pro Ser Ala Glu Ala Gln
 35 40 45
 Asp Pro Phe Pro Thr Val Gly Pro Asn Ser Val Leu Ser Pro Gln Arg
 50 55 60
 Leu Val Leu Glu Thr Leu Cys Lys Leu Ser Ile Gln Asp Asn Asn Val
 65 70 75 80
 Asp Leu Ile Leu Ala Thr Pro Pro Phe Ser Arg Gln Glu Lys Phe Tyr
 85 90 95
 Ala Thr Leu Val Arg Tyr Val Gly Asp Arg Lys Asn Pro Val Cys Arg
 100 105 110
 Glu Met Ser Met Ala Leu Leu Ser Asn Leu Ala Gln Gly Asp Ala Leu
 115 120 125
 Ala Ala Arg Ala Ile Ala Val Gln Lys Gly Ser Ile Gly Asn Leu Ile
 130 135 140
 Ser Phe Leu Glu Asp Gly Val Thr Met Ala Gln Tyr Gln Gln Ser Gln
 145 150 155 160
 His Asn Leu Met His Met Gln Pro Pro Pro Leu Glu Pro Pro Ser Val
 165 170 175
 Asp Met Met Xaa Arg Ala Ala Lys Ala Leu Leu Ala Met Ala Arg Val
 180 185 190
 Asp Glu Asn Arg Ser Glu Phe Leu Leu His Glu Gly Arg Leu Leu Asp
 195 200 205
 Ile Ser Ile Ser Ala Val Leu Asn Ser Leu Val Ala Ser Val Ile Cys
 210 215 220
 Asp Val Leu Phe Gln Ile Gly Gln Leu
 225 230

<210> 639

<211> 106

<212> PRT

<213> Homo sapiens

<400> 639

581

Phe Ala Ala Val Gly Ala Gly Cys Val Ile Phe Leu Leu Ile Ile Ile
 1 5 10 15
 Phe Leu Thr Val Leu Leu Leu Lys Leu Arg Lys Arg His Arg Lys His
 20 25 30
 Thr Gln Gln Arg Ala Ala Ala Leu Ser Leu Ser Thr Leu Ala Ser Pro
 35 40 45
 Lys Gly Gly Ser Gly Thr Ala Gly Thr Glu Pro Ser Asp Ile Ile Ile
 50 55 60
 Pro Leu Arg Thr Thr Glu Asn Asn Tyr Cys Pro His Tyr Glu Lys Val
 65 70 75 80
 Ser Gly Asp Tyr Gly His Pro Val Tyr Ile Val Gln Glu Met Pro Pro
 85 90 95
 Gln Ser Pro Ala Asn Ile Tyr Tyr Lys Val
 100 105

<210> 640

<211> 164

<212> PRT

<213> Homo sapiens

<400> 640

Phe Met Tyr Val Phe Ser Gln Gly Asp Arg Val Val Leu Phe Ser Gln
 1 5 10 15
 Phe Thr Met Met Leu Asp Ile Leu Glu Val Leu Leu Lys His His Gln
 20 25 30
 His Arg Tyr Leu Arg Leu Asp Gly Lys Thr Gln Ile Ser Glu Arg Ile
 35 40 45
 His Leu Ile Asp Glu Phe Asn Thr Asp Met Asp Ile Phe Val Phe Leu
 50 55 60
 Leu Ser Thr Lys Ala Gly Gly Leu Gly Ile Asn Leu Thr Ser Ala Asn
 65 70 75 80
 Val Val Ile Leu His Asp Ile Asp Cys Asn Pro Tyr Asn Asp Lys Gln
 85 90 95
 Ala Glu Asp Arg Cys His Arg Val Gly Gln Thr Lys Glu Val Leu Val
 100 105 110
 Ile Lys Leu Ile Ser Gln Gly Thr Ile Glu Glu Ser Met Leu Lys Ile

582

115 120 125
 Asn Gln Gln Lys Leu Lys Leu Glu Gln Asp Met Thr Thr Val Asp Glu
 130 135 140
 Gly Asp Glu Gly Ser Met Pro Ala Asp Ile Ala Thr Leu Leu Lys Thr
 145 150 155 160
 Ser Met Gly Leu

<210> 641
 <211> 45
 <212> PRT
 <213> Homo sapiens

<400> 641
 Thr Tyr Pro Phe Thr Leu Ser Leu Cys Ala Asn Leu Ile Leu Tyr Tyr
 1 5 10 15
 Ile Pro Lys Leu Tyr Ile Ala Leu Phe Leu Ser Ser Ile Leu Leu Tyr
 20 25 30
 Trp Thr Ile Val Cys Ser Tyr Ala Asn Pro Thr Leu Phe
 35 40 45

<210> 642
 <211> 133
 <212> PRT
 <213> Homo sapiens

<220>
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 <222> (1)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 642
 Xaa Phe Ser Gln Thr Val Ser Ala Val Cys Leu Pro Ser Ala Asp Asp
 1 5 10 15
 Asp Phe Pro Ala Gly Thr Leu Cys Ala Thr Thr Gly Trp Gly Lys Thr
 20 25 30
 Lys Tyr Asn Ala Asn Lys Thr Pro Asp Lys Leu Gln Gln Ala Ala Leu
 35 40 45
 Pro Leu Leu Ser Asn Ala Glu Cys Lys Lys Ser Trp Gly Arg Arg Ile

583

50 55 60

Thr Asp Val Met Ile Cys Ala Gly Ala Ser Gly Val Ser Ser Cys Met
65 70 75 80

Gly Asp Ser Gly Gly Pro Leu Val Cys Gln Lys Asp Gly Ala Trp Thr
 85 90 95

Leu Val Gly Ile Val Ser Trp Gly Ser Asp Thr Cys Ser Thr Ser Ser
 100 105 110

Pro Gly Val Tyr Ala Arg Val Thr Lys Leu Ile Pro Trp Val Gln Lys
 115 120 125

Ile Leu Ala Ala Asn
130

<210> 643

<211> 146

<212> PRT

<213> Homo sapiens

<220>

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<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (94)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (126)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (130)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (133)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (137)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (143)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 643

Gln Xaa Phe Gly Gln Lys Thr Leu Trp Leu Leu Ser Cys Phe Ser Leu
 1 5 10 15

Val Gly Ala Ala Phe Gly Cys Gly Val Pro Ala Ile His Pro Val Leu
 20 25 30

Ser Gly Leu Ser Arg Ile Val Asn Gly Glu Asp Ala Val Pro Gly Ser
 35 40 45

Trp Pro Trp Gln Val Ser Leu Gln Asp Lys Thr Gly Phe His Phe Cys
 50 55 60

Gly Gly Ser Leu Ile Ser Glu Asp Trp Val Val Thr Ala Ala His Cys
 65 70 75 80

Gly Val Arg Thr Ser Asp Val Val Val Ala Gly Glu Phe Xaa Gln Gly
 85 90 95

Ser Asp Glu Glu Asn Ile Gln Val Leu Lys Ile Ala Lys Val Phe Lys
 100 105 110

Asn Pro Lys Phe Ser Ile Leu Thr Val Asn Asn Asp Ile Xaa Leu Leu
 115 120 125

Lys Xaa Ala Thr Xaa Ala Pro Phe Xaa Gln Thr Val Ser Ala Xaa Cys
 130 135 140

Leu Pro
 145

<210> 644

<211> 349

<212> PRT

<213> Homo sapiens

<220>

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<222> (110)

<223> Xaa equals any of the naturally occurring L-amino acids

585

<400> 644

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Lys Val Pro Val Thr Ala Thr Ala Ala Gly Val Cys Val Trp Gln Gly
 1             5             10             15

Ala Arg Pro Gly Glu Arg Gly Val Ser Arg Cys Arg Ser Trp Gln Cys
      20             25             30

Arg Arg Trp Trp Ser Thr Pro Trp Cys Cys Ser Val Trp Trp Ile Ile
      35             40             45

Ser Thr Glu Ser Ala Arg Leu Glu Thr Arg Ser Val Leu Leu Val Cys
      50             55             60

Phe Trp Gly His Gly Lys Arg Lys Tyr Leu Met Tyr Arg Thr Val Leu
 65             70             75             80

His Ser Phe Asp Glu Asp Asp Lys Asp Asp Ser Val Trp Phe Leu Asp
      85             90             95

His Asp Tyr Leu Glu Asn Met Tyr Gly Met Phe Lys Lys Xaa Asn Ala
      100            105            110

Arg Glu Arg Ile Val Gly Trp Tyr His Thr Gly Pro Lys Leu His Lys
      115            120            125

Asn Asp Ile Ala Ile Asn Glu Leu Met Lys Arg Tyr Cys Pro Asn Ser
      130            135            140

Val Leu Val Ile Ile Asp Val Lys Pro Lys Asp Leu Gly Leu Pro Thr
      145            150            155            160

Glu Ala Tyr Ile Ser Val Glu Glu Val His Asp Asp Gly Thr Pro Thr
      165            170            175

Ser Lys Thr Phe Glu His Val Thr Ser Glu Ile Gly Ala Glu Glu Ala
      180            185            190

Glu Glu Val Gly Val Glu His Leu Leu Arg Asp Ile Lys Asp Thr Thr
      195            200            205

Val Gly Thr Leu Ser Gln Arg Ile Thr Asn Gln Val His Gly Leu Lys
      210            215            220

Gly Leu Asn Ser Lys Leu Leu Asp Ile Arg Ser Tyr Leu Glu Lys Val
      225            230            235            240

Ala Thr Gly Lys Leu Pro Ile Asn His Gln Ile Ile Tyr Gln Leu Gln
      245            250            255

Asp Val Phe Asn Leu Leu Pro Asp Val Ser Leu Gln Glu Phe Val Lys
      260            265            270

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Ala Phe Tyr Leu Lys Thr Asn Asp Gln Met Val Val Val Tyr Leu Ala
275 280 285

Ser Leu Ile Arg Ser Val Val Ala Leu His Asn Leu Ile Asn Asn Lys
290 295 300

Ile Ala Asn Arg Asp Ala Glu Lys Lys Glu Gly Gln Glu Lys Glu Glu
305 310 315 320

Ser Lys Lys Asp Arg Lys Glu Asp Lys Glu Lys Asp Lys Asp Lys Glu
325 330 335

Lys Ser Asp Val Lys Lys Glu Glu Lys Lys Glu Lys Lys
340 345

<210> 645

<211> 124

<212> PRT

<213> Homo sapiens

<220>

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<222> (86)

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<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (94)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (103)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (104)

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<222> (105)

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<222> (109)

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<222> (121)

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<222> (122)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 645

Arg Cys Ser Ser Pro Ala Asp Thr Arg Arg Gly Cys Glu Val Glu Gln
1 5 10 15

Trp Asp Ser Asp Glu Pro Ile Pro Ala Lys Glu Leu Glu Arg Gly Val
20 25 30

Ala Gly Ala His Gly Leu Leu Cys Leu Leu Ser Asp His Val Asp Lys
35 40 45

Arg Ile Leu Asp Ala Ala Gly Ala Asn Leu Lys Val Ile Ser Thr Met
50 55 60

Ser Val Gly Ile Asp His Leu Ala Leu Asp Glu Ile Lys Lys Arg Gly
65 70 75 80

Ile Arg Val Gly Tyr Xaa Pro Asp Val Leu Thr Asp Xaa Xaa Ala Glu
85 90 95

Leu Ala Val Ser Leu Leu Xaa Xaa Xaa Cys Arg Arg Xaa Pro Glu Ala
100 105 110

Ser Glu Glu Val Lys Asn Gly Gly Xaa Xaa Ser Trp
115 120

<210> 646

<211> 89

<212> PRT

<213> Homo sapiens

<400> 646

Tyr Arg Glu Ser Trp Tyr Ala Cys Arg Tyr Arg Ser Gly Ile Pro Gly

588

1 5 10 15
Ser Thr His Ala Ser Ala Ala Ile Arg Leu Phe Ser Val Arg Leu Gly
20 25 30
Arg Gly Gln Gly Arg Ser Ser His Pro Cys Val Glu Gly Ser Arg Cys
35 40 45
Ala Ser Glu Gln Leu Leu Cys Ser Glu Val Leu Gly Gly Ser Asp Cys
50 55 60
Ala Ile Ile Val Ile Lys Glu Lys Thr Arg Pro Pro Ser Phe Leu Pro
65 70 75 80
Cys Trp Pro Leu Phe Ile Glu Phe Tyr
85

<210> 647

<211> 126

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (61)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<220>
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<220>
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<400> 647
Ala Arg Ala Ala Pro Arg Arg Ala Glu Pro Thr Glu Pro Ala Leu Arg
1 5 10 15
Arg Pro Ser Ser Ala Asp Arg Pro Leu Ala Pro Gly Pro Ser Ser Ser
20 25 30
Pro Xaa Ala Gly Arg Ala Pro Xaa Xaa Xaa Ala Ser Pro Ser Xaa Ser

590

35	40	45
Ser Glu Ala Thr Gly Lys Pro Arg Gly Arg Asp Gly Xaa Pro Arg Arg		
50	55	60
Glu Glu Xaa Asp Val Xaa Pro Glu Glu Lys Arg Leu Arg Leu Leu Leu		
65	70	75
Glu Xaa Gly Ser Ala Gln Pro Xaa Asp Cys Glu Asp Gly Glu Asp Ala		
85	90	95
Pro Xaa Pro Gly Arg Xaa Xaa Thr Gly Thr Gln Thr Gly Gly Asp Gly		
100	105	110
Arg Gly Val Ser Xaa Ala Gly Ala Gly Val Arg Gly Cys Arg		
115	120	125

<210> 648

<211> 121

<212> PRT

<213> Homo sapiens

<400> 648

Lys Ile Leu Asn Met Gln Lys Ser Cys Glu Glu Asn Glu Gly Lys Pro
1 5 10 15
Gln Asn Met Pro Lys Ala Glu Glu Asp Arg Pro Leu Glu Asp Val Pro
20 25 30
Gln Glu Ala Glu Gly Asn Pro Gln Pro Ser Glu Glu Gly Val Ser Arg
35 40 45
Glu Ala Glu Gly Asn Pro Arg Gly Gly Pro Asn Gln Pro Gly Gln Gly
50 55 60
Phe Lys Glu Asp Thr Pro Val Arg His Leu Asp Pro Glu Glu Met Ile
65 70 75 80
Arg Gly Val Asp Glu Leu Glu Arg Leu Arg Glu Glu Ile Arg Arg Val
85 90 95
Arg Asn Lys Phe Val Met Met His Trp Lys Gln Arg His Ser Arg Ser
100 105 110
Arg Pro Tyr Pro Val Cys Phe Arg Pro
115 120

<210> 649
 <211> 236
 <212> PRT
 <213> Homo sapiens

<220>
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 <222> (31)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <222> (114)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 649
 Thr Gln Met Arg Trp Asn Cys Leu Arg Arg Arg Met Gln Cys Trp Thr
 1 5 10 15
 Arg Thr Arg Met Ser Val Trp Thr Arg Leu Pro Cys Gly Ser Xaa Thr
 20 25 30
 Glu Met Gly Phe Pro Glu Asn Arg Ala Thr Lys Ala Leu Gln Leu Asn
 35 40 45
 His Met Ser Val Pro Gln Ala Met Glu Trp Leu Ile Glu His Ala Glu
 50 55 60
 Asp Pro Thr Ile Asp Thr Pro Leu Pro Gly Gln Ala Pro Pro Glu Ala
 65 70 75 80
 Glu Gly Ala Thr Ala Ala Ala Ser Glu Ala Ala Ala Gly Ala Ser Ala
 85 90 95
 Thr Asp Glu Glu Ala Arg Asp Glu Leu Thr Glu Ile Phe Lys Lys Ile
 100 105 110
 Arg Xaa Lys Arg Glu Phe Arg Ala Asp Ala Arg Ala Val Ile Ser Leu
 115 120 125
 Met Glu Met Gly Phe Asp Glu Lys Glu Val Ile Asp Ala Leu Arg Val
 130 135 140
 Asn Asn Asn Gln Gln Asn Ala Ala Cys Glu Trp Leu Leu Gly Asp Arg
 145 150 155 160
 Lys Pro Ser Pro Glu Glu Leu Asp Lys Gly Ile Asp Pro Asp Ser Pro
 165 170 175
 Leu Phe Gln Ala Ile Leu Asp Asn Pro Val Val Gln Leu Gly Leu Thr
 180 185 190

Asn Pro Lys Thr Leu Leu Ala Phe Glu Asp Met Leu Glu Asn Pro Leu
 195 200 205

Asn Ser Thr Gln Trp Met Asn Asp Pro Glu Thr Gly Pro Val Met Leu
 210 215 220

Gln Ile Ser Arg Ile Phe Gln Thr Leu Asn Arg Thr
 225 230 235

<210> 650

<211> 119

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (108)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 650

Ser Ser Val Cys Met Ala Cys Thr Tyr Val Ser Asn Leu Gly Lys Lys
 1 5 10 15

Gln Arg Ser Val Ser Phe Leu Ala Ser Gly Leu Met Arg Val Ser Thr
 20 25 30

Gly Pro Glu Leu Arg Leu His His Ser Phe Val Leu Thr Gly Asp Val
 35 40 45

Gly Arg Arg Ile Cys Arg Leu Leu Val Gly Leu Phe Thr Lys Gly Asp
 50 55 60

Thr Ser Ser Lys Arg Val His Pro Phe Ser Pro Gly Pro Cys Phe Leu
 65 70 75 80

Leu Cys Asp Leu Ala Arg Val Gly Ser Ser Pro Lys Ile Asn Val Ser
 85 90 95

Pro Phe Tyr Gln Asn Gln Thr Ser Thr Gln Arg Xaa Leu Leu Ser Leu
 100 105 110

Cys Gly Lys Asp Val Pro Leu
 115

<210> 651

<211> 62

<212> PRT

<213> Homo sapiens

<400> 651

Asn Val Lys Gly Gln Gln Glu Pro Val Phe Leu Met Ser Ser Cys Thr
1 5 10 15

Arg His Lys Ser Lys Ala Asn Thr Ser Leu Lys Ser Arg Asn Lys Tyr
20 25 30

Phe Ser Arg Phe Leu Leu Gly His Ile Leu Thr Ala Leu Gly Ile Leu
35 40 45

Ile Trp Ser Pro Asn Thr Lys Asp Pro Phe Arg Ala Cys Tyr
50 55 60

<210> 652

<211> 64

<212> PRT

<213> Homo sapiens

<400> 652

Trp Leu Asn Asn Leu Thr Arg Leu Thr Arg Thr Val Asn Lys Leu Tyr
1 5 10 15

Val Gln Asp Tyr Asn Leu Asp Ser Leu Thr Val Glu Pro Ala Pro Leu
20 25 30

Ile Ala Ile Gln Tyr His Asn His His His His His His Pro Tyr Cys
35 40 45

Leu Ser Asp Arg Phe Leu Gly Tyr Trp Leu Asp Glu Thr Glu Tyr Met
50 55 60

<210> 653

<211> 117

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (93)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (114)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 653

Tyr	Phe	Glu	Arg	Trp	Pro	Pro	Ala	Gly	Thr	Gly	Pro	Glu	Phe	Pro	Gly
1				5					10					15	

Arg	Pro	Thr	Arg	Pro	Xaa	Pro	Gln	Ala	Val	Arg	Ala	Gly	Ala	Val	Arg
			20				25						30		

Lys	Leu	Asp	Ala	Asp	Glu	Asp	Gly	Leu	Pro	Tyr	Leu	Cys	Thr	Gly	Tyr
		35					40					45			

Asp	Leu	Tyr	Val	Thr	Arg	Glu	Pro	Cys	Ala	Met	Cys	Ala	Met	Ala	Leu
	50						55				60				

Val	His	Ala	Arg	Ile	Leu	Arg	Val	Phe	Tyr	Gly	Ala	Pro	Ser	Pro	Asp
65					70					75					80

Gly	Ala	Leu	Gly	Thr	Arg	Phe	Arg	Ile	His	Ala	Arg	Xaa	Asp	Leu	Asn
				85					90					95	

His	Arg	Phe	Gln	Val	Phe	Arg	Gly	Val	Leu	Glu	Glu	Gln	Cys	Arg	Trp
			100					105						110	

Leu	Xaa	Pro	Asp	Thr
				115

<210> 654

<211> 68

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (63)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 654

Val	Asp	Pro	Arg	Val	Arg	Thr	His	Ala	Ser	Val	Lys	Met	Val	Val	Leu
1				5					10					15	

Ile	Asp	Tyr	Lys	Arg	Lys	Phe	Tyr	Arg	Ile	Arg	Ile	Xaa	Lys	Thr	Thr
			20					25					30		

Xaa	Gly	Ile	Gly	Trp	Gln	Cys	Gln	Leu	Ala	Leu	Phe	Phe	Asn	Ile	Leu
	35						40					45			

Leu	Phe	Leu	Leu	Thr	Leu	Leu	Tyr	Glu	Gly	Thr	Gly	Ile	Lys	Xaa	Thr
	50					55					60				

Asp	Ile	Pro	Phe
65			

<210> 655

<211> 29

<212> PRT

<213> Homo sapiens

<400> 655

Pro	Val	Trp	Trp	His	Ala	Pro	Val	Val	Pro	Ala	Thr	Arg	Glu	Ala	Glu
1				5					10					15	

Arg	Gly	Glu	Leu	Leu	Glu	Pro	Ser	Lys	Gln	Arg	Leu	Gln
		20						25				

<210> 656

<211> 110

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (106)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 656

Ala	Arg	Gly	Arg	Thr	Ala	Pro	Thr	Arg	Gly	Arg	Gly	Asn	Gln	Gly	Gly
1				5					10					15	

596

Ser Arg Glu Thr Leu Thr Glu Val Pro Trp Glu Pro Val Val Arg Arg
 20 25 30
 Ala Glu Leu Cys Gly Gln Thr Arg Gly Pro Cys Pro Pro Pro Val Lys
 35 40 45
 Pro Cys Cys Ser Arg Gly Ser His Glu Ala Glu Arg Glu Glu Cys Ser
 50 55 60
 Pro Leu Cys Thr Gln Arg Leu Pro Ser Gly Pro His Gly Leu Pro Ala
 65 70 75 80
 His Leu Gly Gly Pro Arg Asp Pro Thr Asp Pro Gln Trp His Trp Pro
 85 90 95
 Lys Met Leu Val Cys Pro Gln Gly Gln Xaa Ala Ile Leu Leu
 100 105 110

<210> 657

<211> 132

<212> PRT

<213> Homo sapiens

<400> 657

Ile Ser Trp Val Cys Leu Asn Cys Gln Ser Gln His Leu Leu Lys Ala
 1 5 10 15
 Pro Leu Ser Ser Ser Gly His Ser Gly Arg Ile Met Gly Glu Thr Glu
 20 25 30
 Gly Lys Lys Asp Glu Ala Asp Tyr Lys Arg Leu Gln Thr Phe Pro Leu
 35 40 45
 Val Arg His Ser Asp Met Pro Glu Glu Met Arg Val Glu Thr Met Glu
 50 55 60
 Leu Cys Val Thr Ala Cys Glu Lys Phe Ser Asn Asn Asn Glu Ser Ala
 65 70 75 80
 Ala Lys Met Ile Lys Glu Thr Met Asp Lys Lys Phe Gly Ser Ser Trp
 85 90 95
 His Val Val Ile Gly Glu Gly Phe Gly Phe Glu Ile Thr His Glu Val
 100 105 110
 Lys Asn Leu Leu Tyr Leu Tyr Phe Gly Gly Thr Leu Ala Val Cys Val
 115 120 125

Trp Lys Cys Ser
130

<210> 658
<211> 161
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (9)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (13)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (68)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 658
Ala Gln Pro Thr Gln Phe Pro Glu Xaa Gly Ala Val Xaa Ala Leu Gly
1 5 10 15
Pro Arg Gly Gln Gly Gly Ser Ser Leu Pro Thr Pro Pro Trp Leu Ser
20 25 30
Ser Thr Ser Trp Ala Ala Thr Ala Pro Ser Pro His Ile Ala Thr Tyr
35 40 45
Leu Glu Ala Asp Val Ala Lys Pro Ala Arg Glu Pro Thr Trp Glu Val
50 55 60
Ala Arg Thr Xaa Trp Gly Pro Arg Thr Leu Val Pro Pro Ser Ile Thr
65 70 75 80
Met Trp Val Leu Lys Thr Leu Asp Cys Leu Pro Asp Ala Pro Lys Pro
85 90 95
Asp Leu Pro Gly Trp Gly Gly Glu Asn Pro Thr Ser Pro Asp Leu His
100 105 110
His Leu His His His His His His His His His Tyr His His His
115 120 125
Pro Thr Gly Ala Arg Val Gly Lys Ile Ser Pro Leu Asp Gln Thr Ala

598

130 135 140
 Pro Ser Met Glu Lys Leu Glu Lys Asn Ser Gly Thr His Ile Gln Ala
 145 150 155 160

Trp

<210> 659

<211> 171

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (45)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 659

Pro Pro Ala Pro Pro Val His Ile Ser Ile Met Glu Gly His Tyr Tyr
 1 5 10 15

Asp Pro Leu Gln Phe Gln Gly Pro Ile Tyr Thr His Gly Asp Ser Pro
 20 25 30

Ala Pro Leu Pro Pro Gln Gly Met Leu Val Gln Pro Xaa Met Asn Leu
 35 40 45

Pro His Pro Gly Leu His Pro His Gln Thr Pro Ala Pro Leu Pro Asn
 50 55 60

Pro Gly Leu Tyr Pro Pro Pro Val Ser Met Ser Pro Gly Gln Pro Pro
 65 70 75 80

Pro Gln Gln Leu Leu Ala Pro Thr Tyr Phe Ser Ala Pro Gly Val Met
 85 90 95

Asn Phe Gly Asn Pro Ser Tyr Pro Tyr Ala Pro Gly Ala Leu Pro Pro
 100 105 110

Pro Pro Pro Pro His Leu Tyr Pro Asn Thr Gln Ala Pro Ser Gln Val
 115 120 125

Tyr Gly Gly Val Thr Tyr Tyr Asn Pro Ala Gln Gln Gln Val Gln Pro
 130 135 140

Lys Pro Ser Pro Pro Arg Arg Thr Pro Gln Pro Val Thr Ile Lys Pro
 145 150 155 160

Pro Pro Pro Glu Val Val Ser Arg Gly Ser Ser
 165 170

<210> 660

<211> 215

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (85)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (188)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 660

Glu Ser Cys Leu Ser Ala Thr Gln Asp Ile Met Ala Ala His Leu Val
 1 5 10 15

Lys Arg Cys Thr Cys Leu Leu Arg Glu Ala Ala Arg Gln Ala Pro Ala
 20 25 30

Met Ala Pro Val Gly Arg Leu Arg Leu Ala Trp Val Ala His Lys Thr
 35 40 45

Leu Thr Ser Ser Ala Thr Ser Pro Ile Ser His Leu Pro Gly Ser Leu
 50 55 60

Met Glu Pro Val Glu Lys Glu Arg Ala Ser Thr Pro Tyr Ile Glu Lys
 65 70 75 80

Gln Val Asp His Xaa Ile Lys Lys Ala Thr Arg Pro Glu Glu Leu Leu
 85 90 95

Glu Leu Leu Gly Gly Ser His Asp Leu Asp Ser Asn Gln Ala Ala Met
 100 105 110

Val Leu Ile Arg Leu Ser His Leu Leu Ser Glu Lys Pro Glu Asp Lys
 115 120 125

Gly Leu Leu Ile Gln Asp Ala His Phe His Gln Leu Leu Cys Leu Leu
 130 135 140

Asn Ser Gln Ile Ala Ser Val Trp His Gly Thr Leu Ser Lys Leu Leu
 145 150 155 160

Gly Ser Leu Tyr Ala Leu Gly Ile Pro Lys Ala Ser Lys Glu Leu Gln
 165 170 175

Ser Val Glu Gln Glu Val Arg Trp Arg Met Arg Xaa Ala Gln Val Gln
 180 185 190

Ala Pro Gly Leu Pro Gly Arg Val Leu Cys His Pro Leu Thr Gly Ala
 195 200 205

Ala Leu Ala Gly Ala Ala Gly
 210 215

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<210> 661
<211> 272
<212> PRT
<213> Homo sapiens
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<220>
<221> SITE
<222> (261)
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>
<221> SITE
<222> (262)
<223> Xaa equals any of the naturally occurring L-amino acids
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<400> 661
Asp Ala Gly Pro Leu Met Gly Thr Ser Arg Asp Gly Asp Thr Thr Arg
   1                   5              10             15
```

Gln Arg Ile Lys Phe Ser Asp Asp Arg Val Cys Lys Ser His Leu Leu
20 25 30

Asn Cys Cys Pro His Asp Val Leu Ser Gly Thr Arg Met Asp Leu Gly
35 40 45

Glu Cys Leu Lys Val His Asp Leu Ala Leu Arg Ala Asp Tyr Glu Ile
50 55 60

Ala Ser Lys Glu Gln Asp Phe Phe Phe Glu Leu Asp Ala Met Asp His
65 70 75 80

Leu Gln Ser Phe Ile Ala Asp Cys Asp Arg Arg Thr Glu Val Ala Lys
85 90 95

Lys Arg Leu Ala Glu Thr Gln Glu Glu Ile Ser Ala Glu Val Ala Ala
100 105 110

601

Lys Ala Glu Arg Val His Glu Leu Asn Glu Glu Ile Gly Lys Leu Leu
115 120 125

Ala Lys Val Glu Gln Leu Gly Ala Glu Gly Asn Val Glu Glu Ser Gln
130 135 140

Lys Val Met Asp Glu Val Glu Lys Ala Arg Ala Lys Lys Arg Glu Ala
145 150 155 160

Glu Glu Val Tyr Arg Asn Ser Met Pro Ala Ser Ser Phe Gln Gln Gln
165 170 175

Lys Leu Arg Val Cys Glu Val Cys Ser Ala Tyr Leu Gly Leu His Asp
180 185 190

Asn Asp Arg Arg Leu Ala Asp His Phe Gly Gly Lys Leu His Leu Gly
195 200 205

Phe Ile Glu Ile Arg Glu Lys Leu Glu Glu Leu Lys Arg Val Val Ala
210 215 220

Glu Lys Gln Glu Lys Arg Asn Gln Glu Arg Leu Lys Arg Arg Glu Glu
225 230 235 240

Arg Glu Arg Glu Glu Arg Glu Lys Leu Arg Arg Ser Arg Ser His Ser
245 250 255

Lys Asn Pro Lys Xaa Xaa Arg Ser Arg Glu Arg Ser Lys Arg Arg Tyr
260 265 270

<210> 662

<211> 152

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (89)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 662

602

Thr Glu Pro Ala Ala Gly Val Ala Val Pro Phe Ala Leu Xaa Gln His
 1 5 10 15
 Gly Arg Val Pro Ala Arg Ala Gly Pro Gly Ala Arg Leu Val Pro Ala
 20 25 30
 Arg Pro His Arg His Leu Arg Ala His Gly Glu Gln Ala Gln Ser Leu
 35 40 45
 Asp Glu Lys Gln Lys Arg Glu Glu Glu Lys Lys Ala Glu Phe Glu
 50 55 60
 Arg Gln Arg Lys Ile Arg Gln Gln Glu Ile Glu Glu Lys Leu Ile Glu
 65 70 75 80
 Glu Glu Thr Ala Arg Arg Val Glu Xaa Leu Val Ala Lys Arg Val Glu
 85 90 95
 Glu Glu Leu Glu Lys Arg Lys Asp Glu Ile Glu Arg Glu Val Leu Arg
 100 105 110
 Arg Val Glu Glu Ala Lys Arg Ile Met Glu Lys Gln Leu Leu Glu Glu
 115 120 125
 Leu Glu Arg Gln Arg Gln Ala Glu Leu Ala Ala Gln Lys Ala Arg Glu
 130 135 140
 Val Thr Leu Gly Pro Phe Gly Lys
 145 150

<210> 663

<211> 59

<212> PRT

<213> Homo sapiens

<400> 663

Pro Gln Thr Phe Asp Tyr Tyr Met Cys Ile Gly Asp Phe Asp His Pro
 1 5 10 15
 Phe Leu Ile Phe Asp Phe Cys Val Thr Tyr Cys His Leu Leu Asn Cys
 20 25 30
 Trp Pro Thr Arg Thr Gly Ser Ile Val Trp Gly Val Gly Glu Ser Leu
 35 40 45
 His Lys Glu Glu Lys Lys Leu Ser Gly Ile Leu
 50 55

603

<210> 664

<211> 72

<212> PRT

<213> Homo sapiens

<400> 664

Cys Asn Leu Leu Ile Met Pro Glu Gly Lys His Tyr Phe His Thr Leu
 1 5 10 15

Leu Phe Leu Tyr Leu Asn Phe Leu Lys Lys Lys Ser Ser Ile Ala Leu
 20 25 30

His Ser Phe Leu Ser Asp Ala Asp Leu Ser Phe Phe Ser Pro Phe Ile
 35 40 45

Leu Asn Thr Met Leu His Met Asn Val Glu Ala Asp Thr Leu His Ser
 50 55 60

Ser Val Asp Ile Thr Thr Pro Met
 65 70

<210> 665

<211> 84

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (50)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 665

Gly Glu Thr Arg Gly Arg Cys Met Gln Thr Ser Leu Glu Leu Trp Ser
 1 5 10 15

Leu Leu Thr Phe Leu Pro Gln Ala Pro Leu Pro Arg Gly Pro Val Thr
 20 25 30

Ile Leu His Arg Asp Tyr Pro Lys Thr Gln Arg Leu Ser Cys Ala Cys
 35 40 45

Arg Xaa Ala Gln Pro Val Leu Ile Ala Ala Leu Leu Phe Asn Gln Arg
 50 55 60

Asp Val Asn Asp Gln Val Ile Phe Ala Arg Phe Val Phe Asn Ile Phe
 65 70 75 80

His Leu Tyr Arg

604

<210> 666
 <211> 122
 <212> PRT
 <213> Homo sapiens

<400> 666
 Ala Ser Gly Gly Gly Leu Ser Asn Ser His Leu Glu Ser Pro Phe Cys
 1 5 10 15
 Leu Phe Lys Ser Pro Ser Glu Gly His Ser Tyr Gln Asn Ser Gly Leu
 20 25 30
 Asp His Phe Gln Asn Ser Asn Ile Asp Gln Ser Phe Trp Glu Thr Phe
 35 40 45
 Gly Ser Ala Glu Pro Thr Lys Thr Arg Lys Ser Pro Ser Ser Asp Ser
 50 55 60
 Trp Thr Cys Ala Asp Thr Ser Thr Glu Arg Arg Ser Ser Asp Ser Trp
 65 70 75 80
 Glu Val Trp Gly Ser Ala Ser Thr Asn Arg Asn Ser Asn Ser Asp Gly
 85 90 95
 Gly Glu Gly Gly Glu Gly Thr Lys Lys Ala Val Pro Pro Ala Val Pro
 100 105 110
 Thr Asp Asp Gly Trp Asp Asn Gln Asn Trp
 115 120

<210> 667
 <211> 82
 <212> PRT
 <213> Homo sapiens

<400> 667
 Arg Trp Gly Ile Cys Glu Lys Asp Val Pro Phe Ile Ile Tyr Ala Ile
 1 5 10 15
 Tyr Ser Arg Cys Phe Glu Arg Leu Gln Lys Arg Arg Pro Ala Ser Leu
 20 25 30
 Ala Asp Lys Phe Ile Ile Ile Leu Gln Lys Cys Ala Gly Cys Ala Leu
 35 40 45

605

Ala Asn Cys Thr Val Leu Phe Thr Pro Ala Trp Val Thr Glu Gln Asp
 50 55 60

Ser Arg Leu Gly Gly Leu Lys Lys Lys Lys Met Leu Tyr Leu Asn Glu
 65 70 75 80

Ser Val

<210> 668
 <211> 566
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (178)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (357)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (518)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 668
 Ser Thr His Ala Ser Gly Glu Val Val Lys Pro Ala Ala Val Leu Ser
 1 5 10 15

Lys Gly Glu Ile Val Val Lys Asn Asn Pro Asn Glu Ser Val Thr Ala
 20 25 30

Asn Ala Ala Thr Asn Ser Pro Ser Cys Thr Arg Ala Asp Pro Lys Asn
 35 40 45

Val Ser Ile Pro Ser Ser Glu Ala Leu Ser Ser Asp Pro Ser Tyr Asn
 50 55 60

Lys Glu Lys His Ile Ile His Pro Thr Gln Lys Ser Lys Ala Ser Gln
 65 70 75 80

Gly Ser Asp Leu Glu Gln Asn Glu Ala Ser Arg Lys Asn Lys Lys Lys
 85 90 95

Lys Glu Lys Ser Thr Ser Lys Tyr Glu Val Leu Thr Val Gln Glu Pro

100	105	110
Pro Arg Ile Glu Asp Ala Glu Glu Phe Pro Asn Leu Ala Val Ala Ser		
115	120	125
Glu Arg Arg Asp Arg Ile Glu Thr Pro Lys Phe Gln Ser Lys Gln Gln		
130	135	140
Pro Gln Asp Asn Phe Lys Asn Asn Val Lys Lys Ser Gln Leu Pro Val		
145	150	155
Gln Leu Asp Leu Gly Gly Met Leu Thr Ala Leu Glu Lys Lys Gln His		
165	170	175
Ser Xaa His Ala Lys Gln Ser Ser Lys Pro Val Val Val Ser Val Gly		
180	185	190
Ala Val Pro Val Leu Ser Lys Glu Cys Ala Ser Gly Glu Arg Gly Arg		
195	200	205
Arg Met Ser Gln Met Lys Thr Pro His Asn Pro Leu Asp Ser Ser Ala		
210	215	220
Pro Leu Met Lys Lys Gly Lys Gln Arg Glu Ile Pro Lys Ala Lys Lys		
225	230	235
Pro Thr Ser Leu Lys Lys Ile Ile Leu Lys Glu Arg Gln Glu Arg Lys		
245	250	255
Gln Arg Leu Gln Glu Asn Ala Val Ser Pro Ala Phe Thr Ser Asp Asp		
260	265	270
Thr Gln Asp Gly Glu Ser Gly Gly Asp Asp Gln Phe Pro Glu Gln Ala		
275	280	285
Glu Leu Ser Gly Pro Glu Gly Met Asp Glu Leu Ile Ser Thr Pro Ser		
290	295	300
Val Glu Asp Lys Ser Glu Glu Pro Pro Gly Thr Glu Leu Gln Arg Asp		
305	310	315
Thr Glu Ala Ser His Leu Ala Pro Asn His Thr Thr Phe Pro Lys Ile		
325	330	335
His Ser Arg Arg Phe Arg Asp Tyr Cys Ser Gln Met Leu Ser Lys Glu		
340	345	350
Val Asp Ala Cys Xaa Thr Asp Leu Leu Lys Glu Leu Val Arg Phe Gln		
355	360	365
Asp Arg Met Tyr Gln Lys Asp Pro Val Lys Ala Lys Thr Lys Arg Arg		

607

370		375		380
Leu Val Leu Gly Leu Arg Glu Val Leu Lys His Leu Lys Leu Lys Lys				
385		390		400
Leu Lys Cys Val Ile Ile Ser Pro Asn Cys Glu Lys Ile Gln Ser Lys				
	405		410	415
Gly Gly Leu Asp Asp Thr Leu His Thr Ile Ile Asp Tyr Ala Cys Glu				
	420		425	430
Gln Asn Ile Pro Phe Val Phe Ala Leu Asn Arg Lys Ala Leu Gly Arg				
	435		440	445
Ser Leu Asn Lys Ala Val Pro Val Ser Val Val Gly Ile Phe Ser Tyr				
	450		455	460
Asp Gly Ala Gln Asp Gln Phe His Lys Met Val Glu Leu Thr Val Ala				
465		470		475
Ala Arg Gln Ala Tyr Lys Thr Met Leu Glu Asn Val Gln Gln Glu Leu				
	485		490	495
Val Gly Glu Pro Arg Pro Gln Ala Pro Pro Ser Leu Pro Thr Gln Gly				
	500		505	510
Pro Ser Cys Pro Ala Xaa Asp Gly Pro Pro Ala Leu Lys Glu Lys Glu				
	515		520	525
Glu Pro His Tyr Ile Glu Ile Trp Lys Lys His Leu Glu Ala Tyr Ser				
	530		535	540
Gly Cys Thr Leu Glu Leu Glu Glu Ser Leu Glu Ala Ser Thr Ser Gln				
545		550		555
Met Met Asn Leu Asn Leu				
	565			

<210> 669

<211> 114

<212> PRT

<213> Homo sapiens

<400> 669

Gly Phe Trp Asp Ser Gly Leu Cys Gly Leu Cys Leu Leu Ala Gly Asn
1 5 10 15

Gly Leu Ser Leu Ser Arg Pro Ala Pro Pro Arg Leu Cys Leu Ser Glu
20 25 30

608

Ala Pro Glu Pro Ser Ser Asp Leu Gln Asn Val Ala Ser Asp Gly Gly
 35 40 45

Leu Gly Trp Glu Met Gly Arg Ala Tyr Ile Val Phe Cys Ser Leu Lys
 50 55 60

Thr Leu Ile Ala Pro Ile Phe Gln Arg Met Val Leu Cys Glu Gln His
 65 70 75 80

Ala Ser Lys Arg Glu Ile Gly Gly Arg Gly Ser Arg Gly Gly Trp Glu
 85 90 95

Lys Ser Gly Ser Phe Leu Pro Leu Thr Ala Leu Thr Phe Cys Glu Arg
 100 105 110

Glu Ala

<210> 670

<211> 154

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (146)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (153)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 670

Asn Gln Arg Leu Leu Asn Asn Leu Pro Ser Phe Pro Ile Phe Cys Gly
 1 5 10 15

Pro Thr Thr Leu Gly Asp Pro Arg Leu Gly Gly Ala Pro Pro Gly Leu
 20 25 30

Ser Arg Ser Phe Arg Leu Pro Pro Leu Pro Ala Ala Met Ala Glu Leu
 35 40 45

Gly Leu Asn Glu His His Gln Asn Glu Val Ile Asn Tyr Met Arg Phe
 50 55 60

Ala Arg Ser Lys Arg Gly Leu Arg Leu Lys Thr Val Asp Ser Cys Phe
 65 70 75 80

Gln Asp Leu Lys Glu Ser Arg Leu Val Glu Asp Thr Phe Thr Ile Asp
85 90 95

Glu Val Ser Glu Val Leu Asn Gly Leu Gln Ala Val Val His Ser Glu
100 105 110

Val Glu Ser Glu Leu Ile Asn Thr Ala Tyr Thr Asn Val Leu Leu Leu
115 120 125

Arg His Cys Leu His Lys Leu Arg Ser Gly Ile Leu Ser Tyr Arg Gln
130 135 140

Thr Xaa Leu Asn Leu Lys Thr Glu Xaa Tyr
145 150

<210> 671
<211> 80
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (59)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (60)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (70)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (72)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (78)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (80)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 671

Cys Arg Gln Glu Arg Ala Val Ala Pro Ala Arg Arg Ala Met Glu Arg
1 5 10 15

Ile Pro Ser Ala Gln Pro Pro Pro Ala Cys Leu Pro Lys Ala Pro Gly
20 25 30

Leu Glu His Gly Asp Leu Pro Gly Met Tyr Pro Ala His Met Tyr Gln
35 40 45

Val Tyr Lys Ser Arg Arg Gly Ile Lys Arg Xaa Xaa Asp Ser Lys Glu
50 55 60

Thr Tyr Lys Leu Pro Xaa Arg Xaa Ile Glu Lys Arg Asp Xaa Thr Xaa
65 70 75 80

<210> 672

<211> 224

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (220)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 672

Glu Pro Ala Glu Gly Pro Ser Ser Cys Asp Pro Ile Cys Pro Ala Gly
1 5 10 15

Leu Lys Ala Leu Ser Leu Cys Val Ala Leu Pro Pro Gly Leu Ala Val
20 25 30

Ser Val Leu Lys Ala Ile Phe Gln Glu Val His Val Gln Ser Leu Pro
35 40 45

Gln Val Asp Arg His Thr Val Tyr Asn Ile Ile Thr Asn Phe Met Arg
50 55 60

Thr Arg Glu Glu Glu Leu Lys Ser Leu Gly Ala Asp Phe Thr Phe Gly
65 70 75 80

Phe Ile Gln Val Met Asp Gly Glu Lys Asp Pro Arg Asn Leu Leu Val
85 90 95

Ala Phe Arg Ile Val His Asp Leu Ile Ser Arg Asp Tyr Ser Leu Gly
100 105 110

Pro Phe Val Glu Glu Leu Phe Glu Val Thr Ser Cys Tyr Phe Pro Ile
115 120 125

Asp Phe Thr Pro Pro Pro Asn Asp Pro His Gly Ile Gln Arg Glu Asp
130 135 140

Leu Ile Leu Ser Leu Arg Ala Val Leu Ala Ser Thr Pro Arg Phe Ala
145 150 155 160

Glu Phe Leu Leu Pro Leu Leu Ile Glu Lys Val Asp Ser Glu Val Leu
165 170 175

Ser Ala Lys Leu Asp Ser Leu Gln Thr Leu Asn Ala Cys Cys Ala Val
180 185 190

Tyr Gly Gln Lys Glu Leu Lys Asp Phe Leu Pro Ser Leu Trp Ala Ser
195 200 205

Ile Arg Arg Glu Val Phe Gln Thr Ala Val Ser Xaa Trp Arg Gln Arg
210 215 220

<210> 673

<211> 498

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (405)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (414)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (445)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 673

Xaa Leu Ser Asp Gly Arg Leu Arg Val Gly Tyr Val Ser Ser Asp Phe
 1 5 10 15

Gly Asn His Pro Thr Ser His Leu Met Gln Ser Ile Pro Gly Met His
 20 25 30

Asn Pro Asp Lys Phe Glu Val Phe Cys Tyr Ala Leu Ser Pro Asp Asp
 35 40 45

Gly Thr Asn Phe Arg Val Lys Val Met Ala Glu Ala Asn His Phe Ile
 50 55 60

Asp Leu Ser Gln Ile Pro Cys Asn Gly Lys Ala Ala Asp Arg Ile His
 65 70 75 80

Gln Asp Gly Ile His Ile Leu Val Asn Met Asn Gly Tyr Thr Lys Gly
 85 90 95

Ala Arg Asn Glu Leu Phe Ala Leu Arg Pro Ala Pro Ile Gln Ala Met
 100 105 110

Trp Leu Gly Tyr Pro Gly Thr Ser Gly Ala Leu Phe Met Asp Tyr Ile
 115 120 125

Ile Thr Asp Gln Glu Thr Ser Pro Ala Glu Val Ala Glu Gln Tyr Ser
 130 135 140

Glu Lys Leu Ala Tyr Met Pro His Thr Phe Phe Ile Gly Asp His Ala
 145 150 155 160

Asn Met Phe Pro His Leu Lys Lys Lys Ala Val Ile Asp Phe Lys Ser
 165 170 175

Asn Gly His Ile Tyr Asp Asn Arg Ile Val Leu Asn Gly Ile Asp Leu
 180 185 190

Lys Ala Phe Leu Asp Ser Leu Pro Asp Val Lys Ile Val Lys Met Lys
 195 200 205

Cys Pro Asp Gly Gly Asp Asn Ala Asp Ser Ser Asn Thr Ala Leu Asn
 210 215 220

Met Pro Val Ile Pro Met Asn Thr Ile Ala Glu Ala Val Ile Glu Met
 225 230 235 240

Ile Asn Arg Gly Gln Ile Gln Ile Thr Ile Asn Gly Phe Ser Ile Ser

245	250	255
Asn Gly Leu Ala Thr Thr Gln Ile Asn Asn Lys Ala Ala Thr Gly Glu		
260	265	270
Glu Val Pro Arg Thr Ile Ile Val Thr Thr Arg Ser Gln Tyr Gly Leu		
275	280	285
Pro Glu Asp Ala Ile Val Tyr Cys Asn Phe Asn Gln Leu Tyr Lys Ile		
290	295	300
Asp Pro Ser Thr Leu Gln Met Trp Ala Asn Ile Leu Lys Arg Val Pro		
305	310	315
Asn Ser Val Leu Trp Leu Leu Arg Phe Pro Ala Val Gly Glu Pro Asn		
325	330	335
Ile Gln Gln Tyr Ala Gln Asn Met Gly Leu Pro Gln Asn Arg Ile Ile		
340	345	350
Phe Ser Pro Val Ala Pro Lys Glu Glu His Val Arg Arg Gly Gln Leu		
355	360	365
Ala Asp Val Cys Leu Asp Thr Pro Leu Cys Asn Gly His Thr Thr Gly		
370	375	380
Met Asp Val Leu Trp Ala Gly Thr Pro Met Val Thr Met Pro Gly Arg		
385	390	395
Asp Ser Cys Phe Xaa Glu Leu Gln His Pro Ser Ser Leu Xaa Leu Gly		
405	410	415
Cys Leu Glu Leu Ile Ala Lys Asn Arg Gln Glu Tyr Glu Asp Ile Ala		
420	425	430
Val Lys Leu Gly Thr Asp Leu Glu Tyr Leu Lys Lys Xaa Arg Gly Lys		
435	440	445
Val Trp Lys Gln Arg Ile Ser Ser Pro Leu Phe Asn Thr Lys Gln Tyr		
450	455	460
Thr Met Glu Leu Glu Arg Leu Tyr Leu Gln Met Trp Glu His Tyr Ala		
465	470	475
Ala Gly Asn Lys Pro Asp His Met Ile Lys Pro Val Glu Val Thr Glu		
485	490	495
Ser Ala		

614

<210> 674
 <211> 146
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (15)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 674
 Arg Asp Pro Ala Gly Ser Pro Ser Ala Ala Gly Gly Leu Ala Xaa Val
 1 5 10 15
 Ser Leu Ala Leu Gly Ser Gly Ser Arg Gly Arg Asp His Ser Gly Ser
 20 25 30
 Gly Val Gly Thr Ala Met Ala Gly Ala Leu Val Arg Lys Ala Ala Asp
 35 40 45
 Tyr Val Arg Ser Lys Asp Phe Arg Asp Tyr Leu Met Ser Thr His Phe
 50 55 60
 Trp Gly Pro Val Ala Asn Trp Gly Leu Pro Ile Ala Ala Ile Asn Asp
 65 70 75 80
 Met Lys Lys Ser Pro Glu Ile Ile Ser Gly Arg Met Thr Phe Ala Leu
 85 90 95
 Cys Cys Tyr Ser Leu Thr Phe Met Arg Phe Ala Tyr Lys Val Gln Pro
 100 105 110
 Arg Asn Trp Leu Leu Phe Ala Cys His Ala Thr Asn Glu Val Ala Gln
 115 120 125
 Leu Ile Gln Gly Gly Arg Leu Ile Lys His Glu Met Thr Lys Thr Ala
 130 135 140
 Ser Ala
 145

<210> 675
 <211> 107
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE

615

<222> (27)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 675

```

Tyr Ser Phe Asp Leu Ile Leu Cys Leu Arg Glu Cys Ser Gly Gln Val
 1           5           10           15

Leu Cys Val Val Gly Trp Gly Gly Arg Val Xaa Ser Phe Pro His Pro
          20           25           30

Cys Val Val Val Leu Leu Thr Val Ala Pro Trp Asp Trp Leu Pro Phe
          35           40           45

Leu Leu Gly Glu Pro Gly Glu Pro Ala His Leu Val Ser Arg Val Cys
          50           55           60

Ala Trp Arg Ser Ala Pro Pro Ala Leu Met Ala Leu Cys His Arg Gln
          65           70           75           80

Arg Pro Gly Gly Ala Val Cys Ala Gln Pro Lys His Phe Thr Phe Phe
          85           90           95

Thr Leu Phe Phe Phe Phe Asn Gln Leu Ile Val
          100          105

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<210> 676

<211> 90

<212> PRT

<213> Homo sapiens

<400> 676

```

Asn Thr Ser His Ile Ser Tyr Leu Thr Arg Leu Ser Trp Ser Cys Arg
 1           5           10           15

Phe His Cys Pro Pro Lys Thr Arg Thr His Thr Tyr Pro Tyr Thr Lys
          20           25           30

Gly Lys Thr Ile Leu Lys Cys Cys Phe Ser Gly Gly Ser Leu Ser Gly
          35           40           45

Cys Cys Leu Thr Val Trp Glu Pro Val Leu Cys Arg Gly Asp Arg Pro
          50           55           60

Asp Leu His Tyr Leu Thr Thr Leu Ala Leu Gly Ala Asn Cys Pro Thr
          65           70           75           80

Val Lys Cys Leu Gly Gly Cys Pro Ile Pro
          85           90

```

616

<210> 677

<211> 362

<212> PRT

<213> Homo sapiens

<400> 677

Ile Ile Met Ala Pro Leu Gly Thr Thr Val Leu Leu Trp Ser Leu Leu
 1 5 10 15

Arg Ser Ser Pro Gly Val Glu Arg Val Cys Phe Arg Ala Arg Ile Gln
 20 25 30

Pro Trp His Gly Gly Leu Leu Gln Pro Leu Pro Cys Ser Phe Glu Met
 35 40 45

Gly Leu Pro Arg Arg Arg Phe Ser Ser Glu Ala Ala Glu Ser Gly Ser
 50 55 60

Pro Glu Thr Lys Lys Pro Thr Phe Met Asp Glu Glu Val Gln Ser Ile
 65 70 75 80

Leu Thr Lys Met Thr Gly Leu Asn Leu Gln Lys Thr Phe Lys Pro Ala
 85 90 95

Ile Gln Glu Leu Lys Pro Pro Thr Tyr Lys Leu Met Thr Gln Ala Gln
 100 105 110

Leu Glu Glu Ala Thr Arg Gln Ala Val Glu Ala Ala Lys Val Arg Leu
 115 120 125

Lys Met Pro Pro Val Leu Glu Glu Arg Val Pro Ile Asn Asp Val Leu
 130 135 140

Ala Glu Asp Lys Ile Leu Glu Gly Thr Glu Thr Thr Lys Tyr Val Phe
 145 150 155 160

Thr Asp Ile Ser Tyr Ser Ile Pro His Arg Glu Arg Phe Ile Val Val
 165 170 175

Arg Glu Pro Ser Gly Thr Leu Arg Lys Ala Ser Trp Glu Glu Arg Asp
 180 185 190

Arg Met Ile Gln Val Tyr Phe Pro Lys Glu Gly Arg Lys Ile Leu Thr
 195 200 205

Pro Ile Ile Phe Lys Glu Glu Asn Leu Arg Thr Met Tyr Ser Gln Asp
 210 215 220

Arg His Val Asp Val Leu Asn Leu Cys Phe Ala Gln Phe Glu Pro Asp

617

225 230 235 240
 Ser Thr Glu Tyr Ile Lys Val His His Lys Thr Tyr Glu Asp Ile Asp
 245 250 255
 Lys Arg Gly Lys Tyr Asp Leu Leu Arg Ser Thr Arg Tyr Phe Gly Gly
 260 265 270
 Met Val Trp Tyr Phe Val Asn Asn Lys Lys Ile Asp Gly Leu Leu Ile
 275 280 285
 Asp Gln Ile Gln Arg Asp Leu Ile Asp Asp Ala Thr Asn Leu Val Gln
 290 295 300
 Leu Tyr His Val Leu His Pro Asp Gly Gln Ser Ala Gln Gly Ala Lys
 305 310 315 320
 Asp Gln Ala Ala Glu Gly Ile Asn Leu Ile Lys Val Phe Ala Lys Thr
 325 330 335
 Glu Ala Gln Lys Gly Ala Tyr Ile Glu Leu Thr Leu Gln Thr Tyr Gln
 340 345 350
 Glu Ala Leu Ser Arg His Ser Ala Ala Ser
 355 360

<210> 678

<211> 53

<212> PRT

<213> Homo sapiens

<400> 678

Leu Gln Val Asp Glu Arg Arg Met Phe Met Phe Leu Tyr Gly Leu Asn
 1 5 10 15
 Lys Ser Val Ile Thr Met Leu Thr Cys Ser Val Ile Lys Cys Thr Asn
 20 25 30
 Gly Ser Leu Cys His Ser Phe Ile Phe Ser Gly Tyr Gln Asp Ser Gln
 35 40 45
 Ile Lys Leu Leu Met
 50

<210> 679

<211> 395

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (370)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (377)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 679

Xaa	Cys	Arg	His	Ser	Ser	Leu	Ile	Phe	Pro	Pro	Val	Ser	Ala	Ser	Ser
1				5					10					15	

Ser	Ser	Phe	Gln	Trp	Phe	Gln	Ser	Thr	Val	Ser	Lys	Glu	Asp	Ala	Met
		20						25					30		

Pro	Glu	Ala	Leu	Lys	Ser	Leu	Ile	Phe	Pro	Asn	Phe	Glu	Pro	Leu	His
		35					40					45			

Lys	Phe	His	Thr	Asn	Phe	Leu	Lys	Glu	Ile	Glu	Gln	Arg	Leu	Ala	Leu
	50					55					60				

Trp	Glu	Gly	Arg	Ser	Asn	Ala	Gln	Ile	Arg	Asp	Tyr	Gln	Arg	Ile	Gly
	65				70					75					80

Asp	Val	Met	Leu	Lys	Asn	Ile	Gln	Gly	Met	Lys	His	Leu	Ala	Ala	His
			85						90						95

Leu	Trp	Lys	His	Ser	Glu	Ala	Leu	Glu	Ala	Leu	Glu	Asn	Gly	Ile	Lys
		100						105					110		

Ser	Ser	Arg	Arg	Leu	Glu	Asn	Phe	Cys	Arg	Asp	Phe	Glu	Leu	Gln	Lys
		115					120					125			

Val	Cys	Tyr	Leu	Pro	Leu	Asn	Thr	Phe	Leu	Leu	Arg	Pro	Leu	His	Arg
	130					135					140				

Leu	Met	His	Tyr	Lys	Gln	Val	Leu	Glu	Arg	Leu	Cys	Lys	His	His	Pro
	145				150					155					160

Pro	Ser	His	Ala	Asp	Phe	Arg	Asp	Cys	Arg	Ala	Ala	Leu	Ala	Glu	Ile
				165					170						175

Thr Glu Met Val Ala Gln Leu His Gly Thr Met Ile Lys Met Glu Asn
 180 185 190
 Phe Gln Lys Leu His Glu Leu Lys Lys Asp Leu Ile Gly Ile Asp Asn
 195 200 205
 Leu Val Val Pro Gly Arg Glu Phe Ile Arg Leu Gly Ser Leu Ser Lys
 210 215 220
 Leu Ser Gly Lys Gly Leu Gln Gln Arg Met Phe Phe Leu Phe Asn Asp
 225 230 235 240
 Val Leu Leu Tyr Thr Ser Arg Gly Leu Thr Ala Ser Asn Gln Phe Lys
 245 250 255
 Val His Gly Gln Leu Pro Leu Tyr Gly Met Thr Ile Glu Glu Ser Glu
 260 265 270
 Asp Glu Trp Gly Val Pro His Cys Leu Thr Leu Arg Gly Gln Arg Gln
 275 280 285
 Ser Ile Ile Val Ala Ala Ser Ser Arg Ser Glu Met Glu Lys Trp Val
 290 295 300
 Glu Asp Ile Gln Met Ala Ile Asp Leu Ala Glu Lys Ser Ser Ser Pro
 305 310 315 320
 Ala Pro Glu Phe Leu Ala Ser Ser Pro Pro Asp Asn Lys Ser Pro Asp
 325 330 335
 Glu Ala Thr Ala Ala Asp Gln Glu Ser Glu Asp Asp Leu Ser Ala Ser
 340 345 350
 Pro His Arg Trp Ser Ala Arg Pro Arg Thr Ala Ala Thr Gln Trp Cys
 355 360 365
 Thr Xaa Ala Gly Thr Ala Thr Pro Xaa Ser Pro Trp Trp Thr Ser Ala
 370 375 380
 Ser Gln Trp Arg Ile Ser Cys Leu Glu Thr Cys
 385 390 395

<210> 680

<211> 156

<212> PRT

<213> Homo sapiens

<400> 680

Ala Arg Gly Lys Met Glu Asp Glu Glu Val Ala Glu Ser Trp Glu Glu

620

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      1             5             10             15
Ala Ala Asp Ser Gly Glu Ile Asp Arg Arg Leu Glu Lys Lys Leu Lys
      20             25             30
Ile Thr Gln Lys Glu Ser Arg Lys Ser Lys Ser Pro Pro Lys Val Pro
      35             40             45
Ile Val Ile Gln Asp Asp Ser Leu Pro Ala Gly Pro Pro Pro Gln Ile
      50             55             60
Arg Ile Leu Lys Arg Pro Thr Ser Asn Gly Val Val Ser Ser Pro Asn
      65             70             75             80
Ser Thr Ser Arg Pro Thr Leu Pro Val Lys Ser Leu Ala Gln Arg Glu
      85             90             95
Ala Glu Tyr Ala Glu Ala Arg Lys Arg Ile Leu Gly Ser Ala Ser Pro
      100            105            110
Glu Glu Glu Gln Glu Lys Pro Ile Leu Asp Arg Pro Thr Arg Ile Ser
      115            120            125
Gln Pro Glu Asp Ser Arg Gln Pro Asn Asn Val Ile Arg Gln Pro Leu
      130            135            140
Gly Pro Asp Gly Ser Gln Gly Phe Lys Gln Arg Arg
      145            150            155

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<210> 681

<211> 144

<212> PRT

<213> Homo sapiens

<400> 681

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Ser Ala Met Ala Ala Ala Ala Glu Gly Val Leu Ala Thr Arg Ser Asp
      1             5             10             15
Glu Pro Ala Arg Asp Asp Ala Ala Val Glu Thr Ala Glu Glu Ala Lys
      20             25             30
Glu Pro Ala Glu Ala Asp Ile Thr Glu Leu Cys Arg Asp Met Phe Ser
      35             40             45
Lys Met Ala Thr Tyr Leu Thr Gly Glu Leu Thr Ala Thr Ser Glu Asp
      50             55             60
Tyr Lys Leu Leu Glu Asn Met Asn Lys Leu Thr Ser Leu Lys Tyr Leu
      65             70             75             80

```

621

Glu Met Lys Asp Ile Ala Ile Asn Ile Ser Arg Asn Leu Lys Asp Leu
 85 90 95
 Asn Gln Lys Tyr Ala Gly Leu Gln Pro Tyr Leu Asp Gln Ile Asn Val
 100 105 110
 Ile Glu Glu Gln Val Ala Ala Leu Glu Gln Ala Ala Tyr Lys Leu Asp
 115 120 125
 Ala Tyr Ser Lys Lys Leu Glu Ala Lys Tyr Lys Lys Leu Glu Lys Arg
 130 135 140

<210> 682

<211> 178

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (177)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 682

Arg Ala Trp Ser Pro Ser Gly Arg Ala Tyr Asp Pro Ala Asp Tyr Glu
 1 5 10 15
 His Leu Pro Val Ser Ala Glu Ile Lys Glu Leu Phe Gln Tyr Ile Ser
 20 25 30
 Arg Tyr Thr Pro Gln Leu Ile Asp Leu Asp His Lys Leu Lys Pro Phe
 35 40 45
 Ile Pro Asp Phe Ile Pro Ala Val Gly Asp Ile Asp Ala Phe Leu Lys
 50 55 60
 Val Pro Arg Pro Asp Gly Lys Pro Asp Asn Leu Gly Leu Leu Val Leu
 65 70 75 80
 Asp Glu Pro Ser Thr Lys Gln Ser Asp Pro Thr Val Leu Ser Leu Trp
 85 90 95
 Leu Thr Glu Asn Ser Lys Gln His Asn Ile Thr Gln His Met Lys Val
 100 105 110
 Lys Ser Leu Glu Asp Ala Glu Lys Asn Pro Lys Ala Ile Asp Thr Trp

622

115		120		125
Ile Glu Ser Ile Ser Glu Leu His Arg Ser Lys Pro Pro Ala Thr Val				
130		135		140
His Tyr Thr Arg Pro Met Pro Asp Ile Asp Thr Leu Met Gln Glu Trp				
145		150		155
				160
Ser Pro Glu Phe Glu Glu Leu Leu Gly Lys Val Ser Leu Pro Thr Ala				
	165		170	175

Xaa Asp

<210> 683

<211> 452

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (58)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 683

Gln Phe Tyr Leu Leu Phe Asn Lys Glu Ala Leu Ser Asn Met Asp Asp
1 5 10 15

Tyr Asp Lys Thr Cys Leu Glu Ser Ala Leu Val Gly Val Cys Asn Ile
20 25 30

Val Gln Gln Glu Trp Gly Gly Ala Ile Pro Cys Gln Val Val Leu Val
35 40 45

Thr Asp Gly Cys Leu Gly Ile Gly Arg Xaa Ser Leu Arg His Ser Leu
50 55 60

Ala Thr Gln Asn Gln Arg Ser Glu Ser Asn Arg Phe Pro Leu Pro Phe
65 70 75 80

Pro Phe Pro Ser Lys Leu Tyr Ile Met Cys Met Ala Asn Leu Glu Glu
85 90 95

Leu Gln Ser Thr Asp Ser Leu Glu Cys Leu Glu Arg Leu Ile Asp Leu
100 105 110

Asn Asn Gly Glu Gly Gln Ile Phe Thr Ile Asp Gly Pro Leu Cys Leu
115 120 125

Lys Asn Val Gln Ser Met Phe Gly Lys Leu Ile Asp Leu Ala Tyr Thr
 130 135 140
 Pro Phe His Ala Val Leu Lys Cys Gly His Leu Thr Ala Asp Val Gln
 145 150 155 160
 Val Phe Pro Arg Pro Glu Pro Phe Val Val Asp Glu Glu Ile Asp Pro
 165 170 175
 Ile Pro Lys Val Ile Asn Thr Asp Leu Glu Ile Val Gly Phe Ile Asp
 180 185 190
 Ile Ala Asp Ile Ser Ser Pro Pro Val Leu Ser Arg His Leu Val Leu
 195 200 205
 Pro Ile Ala Leu Asn Lys Glu Gly Asp Glu Val Gly Thr Gly Ile Thr
 210 215 220
 Asp Asp Asn Glu Asp Glu Asn Ser Ala Asn Gln Ile Ala Gly Lys Ile
 225 230 235 240
 Pro Asn Phe Cys Val Leu Leu His Gly Ser Leu Lys Val Glu Gly Met
 245 250 255
 Val Ala Ile Val Gln Leu Gly Pro Glu Trp His Gly Met Leu Tyr Ser
 260 265 270
 Gln Ala Asp Ser Lys Lys Lys Ser Asn Leu Met Met Ser Leu Phe Glu
 275 280 285
 Pro Gly Pro Glu Pro Leu Pro Trp Leu Gly Lys Met Ala Gln Leu Gly
 290 295 300
 Pro Ile Ser Asp Ala Lys Glu Asn Pro Tyr Gly Glu Asp Asp Asn Lys
 305 310 315 320
 Ser Pro Phe Pro Leu Gln Pro Lys Asn Lys Arg Ser Tyr Ala Gln Asn
 325 330 335
 Val Thr Val Trp Ile Lys Pro Ser Gly Leu Gln Thr Asp Val Gln Lys
 340 345 350
 Ile Leu Arg Asn Ala Arg Lys Leu Pro Glu Lys Thr Gln Thr Phe Tyr
 355 360 365
 Lys Glu Leu Asn Arg Leu Arg Lys Ala Ala Leu Ala Phe Gly Phe Leu
 370 375 380
 Asp Leu Leu Lys Gly Val Ala Asp Met Leu Glu Arg Glu Cys Thr Leu
 385 390 395 400

624

Leu Pro Glu Thr Ala His Pro Asp Ala Ala Phe Gln Leu Thr His Ala
 405 410 415

Ala Gln Gln Leu Lys Leu Ala Ser Thr Gly Thr Ser Glu Tyr Ala Ala
 420 425 430

Tyr Asp Gln Asn Ile Thr Pro Leu His Thr Asp Phe Ser Gly Ser Ser
 435 440 445

Thr Glu Arg Ile
 450

<210> 684

<211> 427

<212> PRT

<213> Homo sapiens

<400> 684

Thr Gly Ser Glu Phe Pro Gly Arg Pro Thr Arg Pro Gly Thr Lys Ala
 1 5 10 15

Gly Tyr Lys Leu Phe Ser Leu Ser Ser Val Glu Gln Leu Asp Gln Val
 20 25 30

His Gly Ser Asn Glu Ile Pro Asp Val Tyr Ile Val Glu Arg Leu Phe
 35 40 45

Ser Ser Ser Leu Val Val Val Val Ser His Thr Lys Pro Arg Gln Met
 50 55 60

Asn Val Tyr His Phe Lys Lys Gly Thr Glu Ile Cys Asn Tyr Ser Tyr
 65 70 75 80

Ser Ser Asn Ile Leu Ser Ile Arg Leu Asn Arg Gln Arg Leu Leu Val
 85 90 95

Cys Leu Glu Glu Ser Ile Tyr Ile His Asn Ile Lys Asp Met Lys Leu
 100 105 110

Leu Lys Thr Leu Leu Asp Ile Pro Ala Asn Pro Thr Gly Leu Cys Ala
 115 120 125

Leu Ser Ile Asn His Ser Asn Ser Tyr Leu Ala Tyr Pro Gly Ser Leu
 130 135 140

Thr Ser Gly Glu Ile Val Leu Tyr Asp Gly Asn Ser Leu Lys Thr Val
 145 150 155 160

Cys Thr Ile Ala Ala His Glu Gly Thr Leu Ala Ala Ile Thr Phe Asn

625

	165		170		175
Ala Ser Gly Ser Lys Leu Ala Ser Ala Ser Glu Lys Gly Thr Val Ile					
	180		185		190
Arg Val Phe Ser Val Pro Asp Gly Gln Lys Leu Tyr Glu Phe Arg Arg					
	195		200		205
Gly Met Lys Arg Tyr Val Thr Ile Ser Ser Leu Val Phe Ser Met Asp					
	210		215		220
Ser Gln Phe Leu Cys Ala Ser Ser Asn Thr Glu Thr Val His Ile Phe					
	225		230		240
Lys Leu Glu Gln Val Thr Asn Ser Arg Pro Glu Glu Pro Ser Thr Trp					
	245		250		255
Ser Gly Tyr Met Gly Lys Met Phe Met Ala Ala Thr Asn Tyr Leu Pro					
	260		265		270
Thr Gln Val Ser Asp Met Met His Gln Asp Arg Ala Phe Ala Thr Ala					
	275		280		285
Arg Leu Asn Phe Ser Gly Gln Arg Asn Ile Cys Thr Leu Ser Thr Ile					
	290		295		300
Gln Lys Leu Pro Arg Leu Leu Val Ala Ser Ser Ser Gly His Leu Tyr					
	305		310		320
Met Tyr Asn Leu Asp Pro Gln Asp Gly Gly Glu Cys Val Leu Ile Lys					
	325		330		335
Thr His Ser Leu Leu Gly Ser Gly Thr Thr Glu Glu Asn Lys Glu Asn					
	340		345		350
Asp Leu Arg Pro Ser Leu Pro Gln Ser Tyr Ala Ala Thr Val Ala Arg					
	355		360		365
Pro Ser Ala Ser Ser Ala Ser Thr Val Pro Gly Tyr Ser Glu Asp Gly					
	370		375		380
Gly Ala Leu Arg Gly Glu Val Ile Pro Glu His Glu Phe Ala Thr Gly					
	385		390		400
Pro Val Cys Leu Asp Asp Glu Asn Glu Phe Pro Pro Ile Ile Leu Cys					
	405		410		415
Arg Gly Asn Gln Lys Gly Lys Thr Lys Gln Ser					
	420		425		

626

<210> 685

<211> 321

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (154)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 685

Gly	Gly	Arg	Ala	Gly	Gln	Ser	Lys	Asp	Ala	Asp	Leu	Arg	Pro	Gly	Asp
1				5					10					15	
Ile	Ile	Val	Ala	Ile	Asn	Gly	Glu	Ser	Ala	Glu	Gly	Met	Leu	His	Ala
			20				25					30			
Glu	Ala	Gln	Ser	Lys	Ile	Arg	Gln	Ser	Pro	Ser	Pro	Leu	Arg	Leu	Gln
	35					40					45				
Leu	Asp	Arg	Ser	Gln	Ala	Thr	Ser	Pro	Gly	Gln	Thr	Asn	Gly	Asp	Ser
	50					55					60				
Ser	Leu	Glu	Val	Leu	Ala	Thr	Arg	Phe	Gln	Gly	Ser	Val	Arg	Thr	Tyr
65				70					75					80	
Thr	Glu	Ser	Gln	Ser	Ser	Leu	Arg	Ser	Ser	Tyr	Ser	Ser	Pro	Thr	Ser
			85						90					95	
Leu	Ser	Pro	Arg	Ala	Gly	Ser	Pro	Phe	Ser	Pro	Pro	Pro	Ser	Ser	Ser
		100						105					110		
Ser	Leu	Thr	Gly	Glu	Ala	Ala	Ile	Ser	Arg	Ser	Phe	Gln	Ser	Leu	Ala
	115						120					125			
Cys	Ser	Pro	Gly	Leu	Pro	Ala	Ala	Asp	Arg	Leu	Ser	Tyr	Ser	Gly	Arg
	130					135					140				
Pro	Gly	Ser	Arg	Gln	Ala	Gly	Leu	Gly	Xaa	Ala	Gly	Asp	Ser	Ala	Val
145				150					155					160	
Leu	Val	Leu	Pro	Pro	Ser	Pro	Gly	Pro	Arg	Ser	Ser	Arg	Pro	Ser	Met
			165					170						175	
Asp	Ser	Glu	Gly	Gly	Ser	Leu	Leu	Leu	Asp	Glu	Asp	Ser	Glu	Val	Phe
		180						185					190		
Lys	Met	Leu	Gln	Glu	Asn	Arg	Glu	Gly	Arg	Ala	Ala	Pro	Arg	Gln	Ser
	195						200						205		

627

Ser Ser Phe Arg Leu Leu Gln Glu Ala Leu Glu Ala Glu Glu Arg Gly
 210 215 220
 Gly Thr Pro Ala Phe Leu Pro Ser Ser Leu Ser Pro Gln Ser Ser Leu
 225 230 235 240
 Pro Ala Ser Arg Ala Leu Ala Thr Pro Pro Lys Leu His Thr Cys Glu
 245 250 255
 Lys Cys Ser Thr Ser Ile Ala Asn Gln Ala Val Arg Ile Gln Glu Gly
 260 265 270
 Arg Tyr Arg His Pro Gly Cys Tyr Thr Cys Ala Asp Cys Gly Leu Asn
 275 280 285
 Leu Lys Met Arg Gly His Phe Trp Val Gly Asp Glu Leu Tyr Cys Glu
 290 295 300
 Lys His Ala Arg Gln Arg Tyr Ser Ala Pro Ala Thr Leu Ser Ser Arg
 305 310 315 320
 Ala

<210> 686

<211> 71

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 686

Phe His Pro Ser Tyr Trp Phe Val Cys Asn Glu Trp Leu Lys Ile Arg
 1 5 10 15

Val Ile Phe Tyr Pro Gln Met Arg Phe Cys Thr Phe Arg Ala Gly Leu
 20 25 30

Asn Xaa Phe Phe Phe Phe Leu Tyr Pro Asn Cys Trp Pro His Gly
 35 40 45

Asn Pro Phe Pro Asp Leu Cys Ser Thr Ile Tyr Trp Gln Asn Gly Arg
 50 55 60

Val Ala Ala Lys Gln Phe Val
 65 70

<210> 687

<211> 272

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 687

Ala Leu Gly Gly Phe Val Arg Leu Leu Pro Arg Cys Phe Gly Phe Pro
 1 5 10 15

Gly Ser Ser Ala Leu Phe Ser Pro Val Ala Ala Gly Ser Gly Arg Ser
 20 25 30

Ala Xaa Trp Asp Phe Leu Leu Ser Pro Glu Glu Phe Asn Thr Asn Met
 35 40 45

Asp Ile Arg Pro Asn His Thr Ile Tyr Ile Asn Asn Met Asn Asp Lys
 50 55 60

Ile Lys Lys Glu Glu Leu Lys Arg Ser Leu Tyr Ala Leu Phe Ser Gln
 65 70 75 80

Phe Gly His Val Val Asp Ile Val Ala Leu Lys Thr Met Lys Met Arg
 85 90 95

Gly Gln Ala Phe Val Ile Phe Lys Glu Leu Gly Ser Ser Thr Asn Ala
 100 105 110

Leu Arg Gln Leu Gln Gly Phe Pro Phe Tyr Gly Lys Pro Met Arg Ile
 115 120 125

Gln Tyr Ala Lys Thr Asp Ser Asp Ile Ile Ser Lys Met Arg Gly Thr
 130 135 140

Phe Ala Asp Lys Glu Lys Lys Lys Glu Lys Lys Lys Ala Lys Thr Val
 145 150 155 160

Glu Gln Thr Ala Thr Thr Asn Lys Lys Pro Gly Gln Gly Thr Pro
 165 170 175

Asn Ser Ala Asn Thr Gln Gly Asn Ser Thr Pro Asn Pro Gln Val Pro
 180 185 190

Asp Tyr Pro Pro Asn Tyr Ile Leu Phe Leu Asn Asn Leu Pro Glu Glu

195	200	205
Thr Asn Glu Met Met Leu Ser Met Leu Phe Asn Gln Phe Pro Gly Phe		
210	215	220
Lys Glu Val Arg Leu Val Pro Gly Arg His Asp Ile Ala Phe Val Glu		
225	230	235 240
Phe Glu Asn Asp Gly Gln Ala Gly Ala Ala Arg Asp Ala Leu Gln Gly		
	245	250 255
Phe Lys Ile Thr Pro Ser His Ala Met Lys Ile Thr Tyr Ala Lys Lys		
	260	265 270

<210> 688

<211> 173

<212> PRT

<213> Homo sapiens

<400> 688

His Leu Phe Cys Arg Ile Val Lys Asn Glu Val Leu Phe Leu Glu Tyr		
1	5	10 15
Leu Thr Gly Cys Leu Ala Ser Arg Arg Cys Leu Ala Lys Ala Leu Pro		
	20	25 30
Glu Met Asp Ser Arg Ile Pro Tyr Asp Asp Tyr Pro Val Val Phe Leu		
	35	40 45
Pro Ala Tyr Glu Asn Pro Pro Ala Trp Ile Pro Pro His Glu Arg Val		
	50	55 60
His His Pro Asp Tyr Asn Asn Glu Leu Thr Gln Phe Leu Pro Arg Thr		
65	70	75 80
Ile Thr Leu Lys Lys Pro Pro Gly Ala Gln Leu Gly Phe Asn Ile Arg		
	85	90 95
Gly Gly Lys Ala Ser Gln Leu Gly Ile Phe Ile Ser Lys Val Ile Pro		
	100	105 110
Asp Ser Asp Ala His Arg Ala Gly Leu Gln Glu Gly Asp Gln Val Leu		
	115	120 125
Ala Val Asn Asp Val Asp Phe Gln Asp Ile Glu His Ser Lys Ala Val		
	130	135 140

630

Glu Ile Leu Lys Thr Ala Arg Glu Ile Ser Met Arg Val Arg Phe Phe
 145 150 155 160

Pro Tyr Asn Tyr His Arg Gln Lys Glu Arg Thr Val His
 165 170

<210> 689

<211> 66

<212> PRT

<213> Homo sapiens

<400> 689

Val Thr Glu Arg Gly Ala Arg Gly Arg Ala Arg Ser Ile Pro Leu Ser
 1 5 10 15

Leu Glu Glu Thr Thr Ala Ser Asp Leu Arg Cys Gly Arg Gly Arg Gln
 20 25 30

Val Pro Ser Val Glu Gly Gln His Ala Gly Ser Thr Trp Gly Gly Gly
 35 40 45

Ala Leu Arg Asp Ser Arg Cys Asn Trp Asp Arg Ser Arg Glu Leu Gln
 50 55 60

Phe Pro
 65

<210> 690

<211> 94

<212> PRT

<213> Homo sapiens

<400> 690

Gly Arg Gly Phe Leu Ser His Lys Asn Glu Ile Leu Glu Ile Ala Leu
 1 5 10 15

Asp Gln Lys Gly Leu Thr Asn Asp Arg Lys Ile Ala Phe Ile Asp Lys
 20 25 30

Asn Arg Asp Leu Cys Ile Thr Ser Val Lys Gly Phe Gly Lys Glu Glu
 35 40 45

Gln Ile Ile Lys Leu Gly Asn Asn Gly Ala Tyr Phe Gly Met Glu Arg
 50 55 60

Tyr Met Gln Tyr Pro Leu Trp Thr Ser Arg Tyr Ser Ile Tyr Ser Val

65 70 75 80

Val Leu Pro Gln Tyr Ser Leu Cys Gly Gln Arg His Phe Ala
85 90

<210> 691
<211> 66
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (38)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (46)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (50)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (51)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (53)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 691
Asn Gln Asn Gly Val His Val Ile Leu Phe Asp Ile Ser Ser Pro Ala
1 5 10 15
Gln Thr Ile Pro Glu Gly Ile Lys Phe Ile Gln Gly Asp Ile Arg His
20 25 30
Leu Ser Asp Val Glu Xaa Ser Leu Pro Gly Cys Arg Arg Xaa Leu Cys
35 40 45
Val Xaa Xaa Leu Xaa Leu Met Val Met Phe Arg Ala Gly Ala Asn Ser
50 55 60
Ile Glu

632

65

<210> 692

<211> 124

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (88)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 692

Thr Lys Gln Gly Glu Lys Lys Glu Leu Gly Gln Asn Arg Arg Arg Phe
1 5 10 15

Pro Thr Arg Ile His Pro Arg Pro Arg Asp Thr Gln Ser Pro His Pro
20 25 30

Gln Pro Ala Arg Ala Ser Arg Pro Gln Leu Leu Ala Leu Gly Thr Ala
35 40 45

Gly Ser Pro Ala Arg Thr Arg His Lys Ala Asp Gln Ser Arg Arg Arg
50 55 60

Gly Gly Gly Gly Thr Thr Arg Arg Gly Phe Pro Gly Arg Cys Ser Pro
65 70 75 80

Pro Ala Ala Pro Ser Leu Gly Xaa Gly Gly Arg Leu Val Trp Phe Ser
85 90 95

Arg Pro Leu Ala Pro Thr Pro Thr Pro Pro Lys Gln Asn Arg Pro Pro
100 105 110

Ser Leu Gly Trp Arg Thr Arg Leu Leu Ala Ala Ser
115 120

<210> 693

<211> 56

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

633

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 693

Ser	Met	Arg	Thr	Glu	Ile	Ser	Val	Leu	Tyr	Arg	Leu	Pro	Ser	Leu	Cys
1				5					10					15	

Cys	Ser	Val	Ile	Leu	Xaa	Lys	Gln	Met	Glu	Thr	Asp	Gly	Ser	Ala	Xaa
			20				25						30		

Ser	Thr	Arg	Gly	Thr	Glu	Xaa	Arg	Gly	Glu	Val	Ser	Pro	Ala	Ile	Ala
		35					40					45			

Asn	Gln	Ala	Arg	Gly	Gly	Gly	Gly
	50					55	

<210> 694

<211> 70

<212> PRT

<213> Homo sapiens

<400> 694

Val	Thr	Ser	Ser	Cys	Thr	Leu	Arg	Glu	Gly	Ser	Ser	Ser	Cys	Ser	Gln
1				5					10					15	

Ser	Val	Ala	Leu	Lys	Thr	Ser	Glu	Ser	Arg	Ala	Leu	Pro	Pro	Glu	Arg
			20				25						30		

Glu	Gly	Glu	Gln	Lys	Glu	Lys	Pro	Arg	Ala	Gly	Arg	Ala	Cys	Phe	Val
		35				40					45				

Cys	Trp	Phe	Gly	Phe	Phe	Ser	Phe	Ile	Phe	Phe	Phe	Arg	Glu	Asp	Ser
	50					55						60			

Phe	Lys	Leu	Ser	Ser	Lys
	65				70

<210> 695

<211> 273

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (27)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 695

Gly Arg Val Gly Met Leu Arg Leu Leu Ser Ser Leu Leu Leu Val Ala
1 5 10 15

Val Ala Ser Gly Tyr Gly Pro Pro Ser Ser Xaa Xaa Ser Ser Arg Val
20 25 30

Val Xaa Gly Glu Asp Ala Val Pro Tyr Ser Trp Pro Trp Gln Val Ser
35 40 45

Leu Gln Tyr Glu Lys Ser Gly Ser Phe Tyr His Thr Cys Gly Gly Ser
50 55 60

Leu Ile Ala Pro Asp Trp Val Val Thr Ala Gly His Cys Ile Ser Arg
65 70 75 80

Asp Leu Thr Tyr Gln Val Val Leu Gly Glu Tyr Asn Leu Ala Val Lys
85 90 95

Glu Gly Pro Glu Gln Val Ile Pro Ile Asn Ser Glu Glu Leu Phe Val
100 105 110

His Pro Leu Trp Asn Arg Ser Cys Val Ala Cys Gly Asn Asp Ile Ala
115 120 125

Leu Ile Lys Leu Ser Arg Ser Ala Gln Leu Gly Asp Ala Val Gln Leu
130 135 140

Ala Ser Leu Pro Pro Ala Gly Asp Ile Leu Pro Asn Lys Thr Pro Cys
145 150 155 160

Tyr Ile Thr Gly Trp Gly Arg Leu Tyr Thr Asn Gly Pro Leu Pro Asp
165 170 175

635

Lys Leu Gln Gln Ala Arg Leu Pro Val Val Asp Tyr Lys His Cys Ser
180 185 190

Arg Trp Asn Trp Trp Gly Ser Thr Val Lys Lys Thr Met Val Cys Ala
195 200 205

Gly Gly Tyr Ile Arg Ser Gly Cys Asn Gly Asp Ser Gly Gly Pro Leu
210 215 220

Asn Cys Pro Thr Glu Asp Gly Gly Trp Gln Val His Gly Val Thr Ser
225 230 235 240

Phe Val Ser Gly Phe Gly Cys Asn Phe Ile Trp Lys Pro Thr Val Phe
245 250 255

Thr Arg Val Ser Ala Phe Ile Asp Trp Ile Glu Glu Thr Ile Ala Ser
260 265 270

His

<210> 696
<211> 180
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (43)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (157)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (158)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (162)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (163)

636

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 696

Tyr Leu Trp Ser Cys Pro His Asn Gly Trp Leu Ser His Asn Cys Gly
 1 5 10 15

His His Glu Asp Ala Gly Val Ile Cys Ser Ala Ser Gln Ser Gln Pro
 20 25 30

Thr Pro Ser Pro Asp Thr Trp Pro Thr Ser Xaa Ala Ser Thr Ala Gly
 35 40 45

Ser Glu Ser Thr Leu Ala Leu Arg Leu Val Asn Gly Gly Asp Arg Cys
 50 55 60

Arg Gly Arg Val Glu Val Leu Tyr Gln Gly Ser Trp Gly Thr Val Cys
 65 70 75 80

Asp Asp Tyr Trp Asp Thr Asn Asp Ala Asn Val Val Cys Arg Gln Leu
 85 90 95

Gly Cys Gly Trp Ala Met Ser Ala Pro Gly Asn Ala Gln Phe Gly Gln
 100 105 110

Gly Ser Gly Pro Ile Val Leu Asp Asp Val Arg Cys Ser Gly His Glu
 115 120 125

Ser Tyr Leu Trp Ser Cys Pro His Asn Gly Trp Leu Ser His Asn Cys
 130 135 140

Gly His His Glu Asp Ala Gly Val Ile Cys Ser Ala Xaa Xaa Val Pro
 145 150 155 160

Val Xaa Xaa Gln Ala Arg Tyr Leu Ala Asp His Gln Leu Thr Gly Ile
 165 170 175

Asp Ser Arg Ile
 180

<210> 697

<211> 62

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

637

<220>

<221> SITE

<222> (57)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 697

Val	Pro	Cys	Pro	Pro	Gly	His	Phe	Pro	Pro	Met	Ser	Pro	Asp	Phe	Thr
1				5					10					15	

Val	Phe	Met	Ile	Lys	Tyr	Leu	Met	Thr	Met	Ile	Val	Gly	Ile	Thr	Thr
			20					25					30		

Gly	Phe	Trp	Ile	Trp	Ser	Gly	Lys	Thr	Leu	Gln	Xaa	Trp	Arg	Arg	Phe
		35					40					45			

Tyr	His	Arg	Leu	Ser	His	Ser	Ser	Xaa	Gly	Glu	Thr	Ala	Val
	50					55					60		

<210> 698

<211> 134

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (121)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (124)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 698

Phe	Phe	Arg	Ser	Ser	Ser	Asp	Asn	Gly	Ser	Pro	Ile	Arg	Gln	Tyr	Glu
1				5					10					15	

Leu	Gln	Pro	Gln	His	Thr	Arg	Gly	Gln	Leu	Trp	Ala	Trp	Lys	Gln	Glu
			20					25					30		

Pro	Arg	Asn	Ser	Gln	Leu	Arg	Ile	Val	Leu	Val	Gly	Lys	Thr	Gly	Ala
		35					40					45			

Gly	Lys	Ser	Ala	Thr	Gly	Asn	Ser	Ile	Leu	Gly	Arg	Lys	Val	Phe	His
	50					55					60				

Ser	Gly	Thr	Ala	Ala	Lys	Ser	Ile	Thr	Lys	Lys	Cys	Glu	Lys	Arg	Ser
65					70					75				80	

638

Ser Ser Trp Lys Glu Thr Glu Leu Val Val Val Asp Thr Pro Gly Ile
 85 90 95

Phe Asp Thr Glu Val Pro Asn Ala Glu Thr Ser Lys Glu Ile Ile Arg
 100 105 110

Cys Ile Leu Leu Thr Ser Pro Gly Xaa His Ala Xaa Ala Ser Gly Gly
 115 120 125

Ser Thr Gly Pro Leu His
 130

<210> 699

<211> 371

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 699

Asp Gln Phe Ser Arg Ser Leu Asn Asn Ser Ala Thr Val Gln His Val
 1 5 10 15

Gln Lys Leu Trp Gln Pro Arg Gly Cys Thr Arg Thr Arg Arg Trp Xaa
 20 25 30

Ala Glu Glu Arg Gly Arg Glu Pro Gln Gly Gln Ala Gly Gly Gly Ala
 35 40 45

Ser Gln Ala Ala Arg Cys Gly Ala Ala Pro Gly Gly Gly Arg Val Glu
 50 55 60

Ala Leu Gly Gln Phe Val Met Lys Thr Arg Arg Thr Leu Lys Gly His
 65 70 75 80

Gly Asn Lys Val Leu Cys Met Asp Trp Cys Lys Asp Lys Arg Arg Ile
 85 90 95

Val Ser Ser Ser Gln Asp Gly Lys Val Ile Val Trp Asp Ser Phe Thr
 100 105 110

Thr Asn Lys Glu His Ala Val Thr Met Pro Cys Thr Trp Val Met Ala
 115 120 125

Cys Ala Tyr Ala Pro Ser Gly Cys Ala Ile Ala Cys Gly Gly Leu Asp
 130 135 140

Asn Lys Cys Ser Val Tyr Pro Leu Thr Phe Asp Lys Asn Glu Asn Met
 145 150 155 160

Ala Ala Lys Lys Lys Ser Val Ala Met His Thr Asn Tyr Leu Ser Ala
 165 170 175

Cys Ser Phe Thr Asn Ser Asp Met Gln Ile Leu Thr Ala Ser Gly Asp
 180 185 190

Gly Thr Cys Ala Leu Trp Asp Val Glu Ser Gly Gln Leu Leu Gln Ser
 195 200 205

Phe His Gly His Gly Ala Asp Val Leu Cys Leu Asp Leu Ala Pro Ser
 210 215 220

Glu Thr Gly Asn Thr Phe Val Ser Gly Gly Cys Asp Lys Lys Ala Met
 225 230 235 240

Val Trp Asp Met Arg Ser Gly Gln Cys Val Gln Ala Phe Glu Thr His
 245 250 255

Glu Ser Asp Ile Asn Ser Val Arg Tyr Tyr Pro Ser Gly Asp Ala Phe
 260 265 270

Ala Ser Gly Ser Asp Asp Ala Thr Cys Arg Leu Tyr Asp Leu Arg Ala
 275 280 285

Asp Arg Glu Val Ala Ile Tyr Ser Lys Glu Ser Ile Ile Phe Gly Ala
 290 295 300

Ser Ser Val Asp Phe Ser Leu Ser Gly Arg Leu Leu Phe Ala Gly Tyr
 305 310 315 320

Asn Asp Tyr Thr Ile Asn Val Trp Asp Val Leu Lys Gly Ser Arg Val
 325 330 335

Ser Ile Leu Phe Gly His Glu Asn Arg Val Ser Thr Leu Arg Val Ser
 340 345 350

Pro Asp Gly Thr Ala Phe Cys Ser Gly Ser Trp Asp His Thr Leu Arg
 355 360 365

Val Trp Ala
 370

<210> 700

<211> 200

<212> PRT

640

<213> Homo sapiens

<400> 700

Ser Gln Ala Pro Pro Pro Pro Pro Pro Pro Ser Arg Pro Gly Pro Pro
 1 5 10 15

Pro Leu Pro Pro Ser Ser Ser Gly Asn Asp Glu Thr Pro Arg Leu Pro
 20 25 30

Gln Arg Asn Leu Ser Leu Ser Ser Thr Pro Pro Leu Pro Ser Pro
 35 40 45

Gly Arg Ser Gly Pro Leu Pro Pro Pro Pro Ser Glu Arg Pro Pro Pro
 50 55 60

Pro Val Arg Asp Pro Pro Gly Arg Ser Gly Pro Leu Pro Pro Pro Pro
 65 70 75 80

Pro Val Ser Arg Asn Gly Ser Thr Ser Arg Ala Leu Pro Ala Thr Pro
 85 90 95

Gln Leu Pro Ser Arg Ser Gly Val Asp Ser Pro Arg Ser Gly Pro Arg
 100 105 110

Pro Pro Leu Pro Pro Asp Arg Pro Ser Ala Gly Ala Pro Pro Pro Pro
 115 120 125

Pro Pro Ser Thr Ser Ile Arg Asn Gly Phe Gln Asp Ser Pro Cys Glu
 130 135 140

Asp Glu Trp Glu Ser Arg Phe Tyr Phe His Pro Ile Ser Asp Leu Pro
 145 150 155 160

Pro Pro Glu Pro Tyr Val Gln Thr Thr Lys Ser Tyr Pro Ser Lys Leu
 165 170 175

Ala Arg Asn Glu Ser Arg Ser Gly Ser Asn Arg Arg Glu Arg Gly Ala
 180 185 190

Pro Pro Leu Pro Pro Ile Pro Arg
 195 200

<210> 701

<211> 660

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

641

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (397)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 701

His Tyr Phe Tyr Leu Lys Glu Arg Ile Leu Glu Leu Thr Leu Gln Arg
 1 5 10 15

Arg Lys Met Val Val Ser Glu Val Asp Ile Ala Lys Ala Asp Pro Ala
 20 25 30

Ala Ala Ser His Pro Leu Leu Leu Asn Gly Asp Ala Thr Val Xaa Gln
 35 40 45

Lys Asn Pro Gly Ser Val Ala Glu Asn Asn Leu Cys Ser Gln Tyr Glu
 50 55 60

Glu Lys Val Arg Pro Cys Ile Asp Leu Ile Asp Ser Leu Arg Ala Leu
 65 70 75 80

Gly Val Glu Gln Asp Leu Ala Leu Pro Ala Ile Ala Val Ile Gly Asp
 85 90 95

Gln Ser Ser Gly Lys Ser Ser Val Leu Glu Ala Leu Ser Gly Val Ala
 100 105 110

Leu Pro Arg Gly Ser Gly Ile Val Thr Arg Cys Pro Leu Val Leu Lys
 115 120 125

Leu Lys Lys Leu Val Asn Glu Asp Lys Trp Arg Gly Lys Val Ser Tyr
 130 135 140

Gln Asp Tyr Glu Ile Glu Ile Ser Asp Ala Ser Glu Val Glu Lys Glu
 145 150 155 160

Ile Asn Lys Ala Gln Asn Ala Ile Ala Gly Glu Gly Met Gly Ile Ser
 165 170 175

His Glu Leu Ile Thr Leu Glu Ile Ser Ser Arg Asp Val Pro Asp Leu
 180 185 190

Thr Leu Ile Asp Leu Pro Gly Ile Thr Arg Val Ala Val Gly Asn Gln
 195 200 205

Pro Ala Asp Ile Gly Tyr Lys Ile Lys Thr Leu Ile Lys Lys Tyr Ile
 210 215 220

Gln Arg Gln Glu Thr Ile Ser Leu Val Val Val Pro Ser Asn Val Asp
 225 230 235 240
 Ile Ala Thr Thr Glu Ala Leu Ser Met Ala Gln Glu Val Asp Pro Glu
 245 250 255
 Gly Asp Arg Thr Ile Gly Ile Leu Thr Lys Pro Asp Leu Val Asp Lys
 260 265 270
 Gly Thr Glu Asp Lys Val Val Asp Val Val Arg Asn Leu Val Phe His
 275 280 285
 Leu Lys Lys Gly Tyr Met Ile Val Lys Cys Arg Gly Gln Gln Glu Ile
 290 295 300
 Gln Asp Gln Leu Ser Leu Ser Glu Ala Leu Gln Arg Glu Lys Ile Phe
 305 310 315 320
 Phe Glu Asn His Pro Tyr Phe Arg Asp Leu Leu Glu Glu Gly Lys Ala
 325 330 335
 Thr Val Pro Cys Leu Ala Glu Lys Leu Thr Ser Glu Leu Ile Thr His
 340 345 350
 Ile Cys Lys Ser Leu Pro Leu Leu Glu Asn Gln Ile Lys Glu Thr His
 355 360 365
 Gln Arg Ile Thr Glu Glu Leu Gln Lys Tyr Gly Val Asp Ile Pro Glu
 370 375 380
 Asp Glu Asn Glu Lys Met Phe Phe Leu Ile Asp Lys Xaa Asn Ala Phe
 385 390 395 400
 Asn Gln Asp Ile Thr Ala Leu Met Gln Gly Glu Glu Thr Val Gly Glu
 405 410 415
 Glu Asp Ile Arg Leu Phe Thr Arg Leu Arg His Glu Phe His Lys Trp
 420 425 430
 Ser Thr Ile Ile Glu Asn Asn Phe Gln Glu Gly His Lys Ile Leu Ser
 435 440 445
 Arg Lys Ile Gln Lys Phe Glu Asn Gln Tyr Arg Gly Arg Glu Leu Pro
 450 455 460
 Gly Phe Val Asn Tyr Arg Thr Phe Glu Thr Ile Val Lys Gln Gln Ile
 465 470 475 480
 Lys Ala Leu Glu Glu Pro Ala Val Asp Met Leu His Thr Val Thr Asp
 485 490 495

643

Met Val Arg Leu Ala Phe Thr Asp Val Ser Ile Lys Asn Phe Glu Glu
 500 505 510
 Phe Phe Asn Leu His Arg Thr Ala Lys Ser Lys Ile Glu Asp Ile Arg
 515 520 525
 Ala Glu Gln Glu Arg Glu Gly Glu Lys Leu Ile Arg Leu His Phe Gln
 530 535 540
 Met Glu Gln Ile Val Tyr Cys Gln Asp Gln Val Tyr Arg Gly Ala Leu
 545 550 555 560
 Gln Lys Val Arg Glu Lys Glu Leu Glu Glu Lys Lys Lys Lys Ser
 565 570 575
 Trp Asp Phe Gly Ala Phe Gln Ser Ser Ser Ala Thr Asp Ser Ser Met
 580 585 590
 Glu Glu Ile Phe Gln His Leu Met Ala Tyr His Gln Glu Ala Ser Lys
 595 600 605
 Arg Ile Ser Ser His Ile Pro Leu Ile Ile Gln Phe Phe Met Leu Gln
 610 615 620
 Thr Tyr Gly Gln Gln Leu Gln Lys Ala Met Leu Gln Leu Leu Gln Asp
 625 630 635 640
 Lys Asp Thr Tyr Ser Trp Leu Leu Lys Glu Arg Ser Asp Pro Ala Thr
 645 650 655
 Ser Gly Ser Ser
 660

<210> 702

<211> 74

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 702

644

Glu His Tyr Ser Tyr Pro Cys Thr Pro Thr Thr Met Xaa Pro Arg Ser
 1 5 10 15
 Ala Tyr Trp His His Ile Thr Gly Ser Gln Asn Ile Ala Glu Ala Ser
 20 25 30
 Ser Tyr Ala Xaa Glu Gly Tyr Gly Ala Ala Gln Ala Ser Ser Glu Thr
 35 40 45
 Asp Leu Leu Asn Arg Phe Ile Leu Leu Lys Pro Lys Pro Ser Gln Gly
 50 55 60
 Asp Ser Ser Glu Ala Lys Thr Pro Ser Gln
 65 70

<210> 703

<211> 284

<212> PRT

<213> Homo sapiens

<400> 703

Glu Ala Ala Pro Trp Leu Glu Ala Ala Ser Val Cys Ala Val Thr Ile
 1 5 10 15
 Ile Asn Pro His Ser Ala Pro Ser Pro Asp Ala Leu Val Thr Gly Ala
 20 25 30
 Ser Trp Met Ser Asn His Val Val Gly Gly Cys Arg Leu Arg Ala Ser
 35 40 45
 Val Gly Ser Ser Thr Thr Val Ser Val Gly Ser Gly His Gly Thr Leu
 50 55 60
 Ser Pro Ser Cys Thr Trp Ser Arg Val His Ser His Pro Pro Ser Cys
 65 70 75 80
 Gly Glu Arg Leu Ala Arg Pro Gly Gln Ala Arg Gln Lys Val Ser Ala
 85 90 95
 Lys Trp Pro Arg Pro His Pro Ala Ile Ser Gln Leu Leu Phe Ile Thr
 100 105 110
 Phe Val Pro His Leu Gly Val Cys Phe Leu His Leu Asp Thr Leu Pro
 115 120 125
 Gly Arg Ser Ser Glu Pro Asn Pro Arg Leu Cys Ser Val Gly Glu Gly
 130 135 140
 Met Thr Ser Pro Pro Pro Asp Leu Pro Arg Val Leu Val Ser Leu Ser

645

145		150		155		160
Ala Gly Gly Pro Leu Cys Val Phe Val Gln Phe Cys Cys Met Gly Phe						
	165		170		175	
Val Thr Gln Lys Leu Met Leu Arg Lys Ala Ser Leu Gly Pro Leu Pro						
	180		185		190	
Arg Ala Ser Glu Arg Pro Gly Val Pro Val Phe Leu Glu Met Gly Pro						
	195		200		205	
Ser Ala Ala Gly Cys Glu Ala Leu Arg Ser Ile Thr Gly Arg Ala Trp						
	210		215		220	
Arg Trp Trp Pro Pro Gly Thr Thr Leu Ser Cys Leu Phe Thr Phe His						
	225		230		235	240
Tyr Gln Val Phe Ser Gly His Tyr Asp Leu Phe Pro Tyr Asn Ser Asp						
	245		250		255	
Leu Cys Ile Leu Leu Trp Pro Ala Val Ser Ala Gly Gly Ser Gln Arg						
	260		265		270	
Gly Thr Gly Arg Ala Ser Pro Cys Arg Thr Ala Glu						
	275		280			

<210> 704

<211> 339

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (57)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 704

Gly	Arg	Ile	Gly	Val	His	Xaa	Pro	Phe	Lys	Trp	Ser	Ser	Phe	Thr	Pro
1				5					10					15	
Pro	Arg	Pro	Ser	Xaa	Ser	Trp	Xaa	Leu	Val	Arg	Arg	Ser	Leu	Met	Ala
			20					25					30		
Pro	Val	Gln	Gly	Gly	Val	Arg	Val	Ile	Val	Gln	Pro	Pro	Glu	Asp	Cys
		35					40					45			
Gly	Ser	Gly	Leu	Gln	Leu	Phe	Gln	Xaa	Phe	Thr	Val	His	Arg	Ser	Pro
	50					55					60				
Val	Thr	Lys	Ile	Met	Leu	Ser	Glu	Lys	His	Leu	Ile	Ser	Val	Cys	Ala
65					70					75					80
Asp	Asn	Asn	His	Val	Arg	Thr	Trp	Ser	Val	Thr	Arg	Phe	Arg	Gly	Met
			85						90					95	
Ile	Ser	Thr	Gln	Pro	Gly	Ser	Thr	Pro	Leu	Ala	Ser	Phe	Lys	Ile	Leu
			100					105					110		
Ala	Leu	Glu	Ser	Ala	Asp	Gly	His	Gly	Gly	Cys	Ser	Ala	Gly	Asn	Asp
		115					120					125			
Ile	Gly	Pro	Tyr	Gly	Glu	Arg	Asp	Asp	Gln	Gln	Val	Phe	Ile	Gln	Lys
		130					135				140				
Val	Val	Pro	Ser	Ala	Ser	Gln	Leu	Phe	Val	Arg	Leu	Ser	Ser	Thr	Gly
145					150					155					160
Gln	Arg	Val	Cys	Ser	Val	Arg	Ser	Val	Asp	Gly	Ser	Pro	Thr	Thr	Ala
			165						170					175	
Phe	Thr	Val	Leu	Glu	Cys	Glu	Gly	Ser	Arg	Arg	Leu	Gly	Ser	Arg	Pro
		180					185					190			
Arg	Arg	Tyr	Leu	Leu	Thr	Gly	Gln	Ala	Asn	Gly	Ser	Leu	Ala	Met	Trp
		195					200					205			
Asp	Leu	Thr	Thr	Ala	Met	Asp	Gly	Leu	Gly	Gln	Ala	Pro	Ala	Gly	Gly
		210					215				220				
Leu	Thr	Glu	Gln	Glu	Leu	Met	Glu	Gln	Leu	Glu	His	Cys	Glu	Leu	Ala
225					230					235					240
Pro	Pro	Ala	Pro	Ser	Ala	Pro	Ser	Trp	Gly	Cys	Leu	Pro	Ser	Pro	Ser
					245				250					255	

647

Pro Arg Ile Ser Leu Thr Ser Leu His Ser Ala Ser Ser Asn Thr Ser
 260 265 270
 Leu Ser Gly His Arg Gly Ser Pro Ser Pro Pro Gln Ala Glu Ala Arg
 275 280 285
 Arg Arg Gly Gly Gly Ser Phe Val Glu Arg Cys Gln Glu Leu Val Arg
 290 295 300
 Ser Gly Pro Asp Leu Arg Arg Pro Pro Thr Pro Ala Pro Trp Pro Ser
 305 310 315 320
 Ser Gly Leu Gly Thr Pro Leu Thr Pro Pro Lys Met Lys Leu Asn Glu
 325 330 335
 Thr Ser Phe

<210> 705
 <211> 104
 <212> PRT
 <213> Homo sapiens

<400> 705
 Pro Lys Phe Arg Thr Ile Gly Ile Val Cys Leu Lys Asn Thr Tyr Lys
 1 5 10 15
 Lys Thr Leu Val Asn Ile Leu Val Met Leu Glu Arg Lys Val Leu Leu
 20 25 30
 Pro Leu Arg Leu Cys Ala Gly Ala Tyr Gly Ser Lys Val Val Tyr Cys
 35 40 45
 Pro Phe Ser Ala Ser Pro Gly Asn Asp Arg His Tyr Ser Pro Ile Gly
 50 55 60
 Leu Pro Ser Leu Tyr Arg Lys Thr Lys Gln Ala Pro Leu Ala Lys Arg
 65 70 75 80
 Tyr Gly Ile Trp Gln Ser Glu Phe Ser Val Ile Trp Lys Val Lys Glu
 85 90 95
 Leu Val Pro Val Ser Pro Phe Ser
 100

<210> 706
 <211> 339

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (173)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (293)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 706

Lys	Xaa	Ser	Phe	Leu	Lys	Ala	Leu	Leu	Ala	Thr	Phe	Gly	Ser	Ser	Phe
1				5					10					15	

Leu	Ile	Ser	Ala	Cys	Phe	Lys	Leu	Ile	Gln	Asp	Leu	Leu	Ser	Phe	Ile
			20					25					30		

Asn	Pro	Gln	Leu	Xaa	Ser	Ile	Leu	Ile	Arg	Phe	Ile	Ser	Asn	Pro	Met
		35					40					45			

Ala	Pro	Ser	Trp	Trp	Gly	Phe	Leu	Val	Ala	Gly	Leu	Met	Phe	Leu	Cys
		50				55						60			

Ser	Met	Met	Gln	Ser	Leu	Ile	Leu	Gln	His	Tyr	Tyr	His	Tyr	Ile	Phe
65					70					75				80	

Val	Thr	Gly	Val	Lys	Phe	Arg	Thr	Gly	Ile	Met	Gly	Val	Ile	Tyr	Arg
				85					90					95	

Lys	Ala	Leu	Val	Ile	Thr	Asn	Ser	Val	Lys	Arg	Ala	Ser	Thr	Val	Gly
		100						105					110		

Glu	Ile	Val	Asn	Leu	Met	Ser	Val	Asp	Ala	Gln	Arg	Phe	Met	Asp	Leu
		115					120					125			

Ala	Pro	Phe	Leu	Asn	Leu	Leu	Trp	Ser	Ala	Pro	Leu	Gln	Ile	Ile	Leu
		130					135								140

Ala Ile Tyr Phe Leu Trp Gln Asn Leu Gly Pro Ser Val Leu Ala Gly
 145 150 155 160
 Val Ala Phe Met Val Leu Leu Ile Pro Leu Asn Gly Xaa Val Ala Val
 165 170 175
 Lys Met Arg Ala Phe Gln Val Lys Gln Met Lys Leu Lys Asp Ser Arg
 180 185 190
 Ile Lys Leu Met Ser Glu Ile Leu Asn Gly Ile Lys Val Leu Lys Leu
 195 200 205
 Tyr Ala Trp Glu Pro Ser Phe Leu Lys Gln Val Glu Gly Ile Arg Gln
 210 215 220
 Gly Glu Leu Gln Leu Leu Arg Thr Ala Ala Tyr Leu His Thr Thr Thr
 225 230 235 240
 Thr Phe Thr Trp Met Cys Ser Pro Phe Leu Val Thr Leu Ile Thr Leu
 245 250 255
 Trp Val Tyr Val Tyr Val Asp Pro Asn Asn Val Leu Asp Ala Glu Lys
 260 265 270
 Ala Phe Val Ser Val Ser Leu Val Asn Ile Leu Arg Leu Pro Leu Asn
 275 280 285
 Met Leu Pro Gln Xaa Ile Ser Asn Leu Thr Gln Ala Ser Val Ser Leu
 290 295 300
 Lys Arg Ile Gln Gln Phe Leu Ser Gln Glu Glu Leu Asp Pro Gln Ser
 305 310 315 320
 Val Glu Arg Lys Thr Ser Ser Gln Ala Met His Thr Ile His Ser Gly
 325 330 335
 Thr Phe Thr

<210> 707

<211> 117

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

650

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 707

Xaa	Ala	Leu	Gly	Val	Glu	Glu	Xaa	Ala	Asp	Phe	Gln	Ser	Leu	Cys	Ser
1				5					10					15	

Trp	Tyr	His	Gly	Ala	Ile	Ser	Arg	Thr	Asp	Ala	Glu	Asn	Leu	Xaa	Arg
			20					25					30		

Leu	Cys	Lys	Glu	Ala	Ser	Tyr	Leu	Val	Arg	Asn	Ser	Glu	Thr	Ser	Lys
		35					40					45			

Asn	Asp	Phe	Ser	Leu	Ser	Leu	Lys	Ser	Ser	Gln	Gly	Phe	Met	His	Met
	50						55				60				

Lys	Leu	Ser	Arg	Thr	Lys	Glu	His	Lys	Tyr	Val	Leu	Gly	Gln	Asn	Ser
65					70					75				80	

Pro	Pro	Phe	Ser	Ser	Val	Pro	Glu	Ile	Val	His	His	Tyr	Ala	Ser	Arg
				85					90					95	

Lys	Leu	Pro	Ile	Lys	Gly	Ala	Glu	His	Met	Ser	Leu	Leu	Tyr	Pro	Val
		100						105					110		

Ala	Ile	Arg	Thr	Leu
				115

<210> 708

<211> 199

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (66)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 708

Trp	Leu	Ala	Ser	Gln	Pro	Cys	Met	Tyr	Ser	Leu	Ala	Glu	Trp	Glu	Ser
1				5					10					15	

651

Ala Pro Cys Ser Ala Arg Leu Leu Gly Ile Leu Val Gly Pro Thr Leu
 20 25 30
 Asn Lys Ser Gln Thr Leu Gly Thr Val Phe Ser Pro Trp Cys Ser Glu
 35 40 45
 His Leu Trp Glu Arg Leu Leu Ser Val Ser Val Gln Ser Lys Phe Val
 50 55 60
 Val Xaa Cys Ala Ile Tyr Thr Val Val Gly Trp Arg Lys Val Glu Ser
 65 70 75 80
 Tyr Thr Gly Lys Lys Leu Pro Ser Phe Asn Phe Ser Val Thr Leu Met
 85 90 95
 Arg Gly Pro Gln Lys Thr Ser Ser Phe Pro Asn Arg Ile Thr Leu Arg
 100 105 110
 Arg Thr Gly Leu Gly His Leu Ala Arg Met Ala Pro Ser Cys Cys Cys
 115 120 125
 Pro Leu Val Arg Asn Leu His Pro Thr Ser Ser Thr Pro Arg Phe Ser
 130 135 140
 Ser Pro Gln Pro Val Pro Phe Pro Gly Phe Leu Asn Cys Ser Ile Leu
 145 150 155 160
 Thr Gln Arg Cys Tyr Leu Pro Asn Thr Leu Pro Thr His Ser Cys Gln
 165 170 175
 Leu Cys Leu Leu Phe Asn Ser Pro His Phe Val Leu Pro Ser Gln Thr
 180 185 190
 Cys Phe Gln Ser Leu Leu Leu
 195

<210> 709

<211> 289

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (86)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 709

Arg	Gly	Ser	Arg	Cys	Pro	Gly	Glu	Leu	Thr	Ser	Arg	Gly	Glu	Ala	Ser
1				5					10					15	
Leu	Ser	Arg	Cys	Phe	Cys	Cys	Trp	Arg	Arg	Cys	Arg	Thr	Ala	Gly	Arg
			20					25					30		
Lys	Gln	Cys	Gly	Pro	Trp	Ser	Trp	Pro	Thr	Ala	Cys	Arg	Ser	Ala	Thr
	35						40					45			
Xaa	Pro	Leu	Phe	Val	Gln	His	Asp	Ala	Ala	Gln	Leu	Tyr	Leu	Lys	Leu
	50					55					60				
Trp	Asn	Leu	Ile	Lys	Asp	Gln	Ile	Thr	Asp	Val	His	Leu	Val	Glu	Arg
65				70					75					80	
Leu	Gln	Ala	Leu	Tyr	Xaa	Ile	Arg	Val	Lys	Asp	Ser	Leu	Ile	Cys	Val
			85					90					95		
Asp	Cys	Ala	Met	Glu	Ser	Ser	Arg	Asn	Ser	Ser	Met	Leu	Thr	Leu	Pro
		100						105					110		
Leu	Ser	Leu	Phe	Asp	Val	Asp	Ser	Lys	Pro	Leu	Lys	Thr	Leu	Glu	Asp
	115						120					125			
Ala	Leu	His	Cys	Phe	Phe	Gln	Pro	Arg	Glu	Leu	Ser	Ser	Lys	Ser	Lys
	130					135					140				
Cys	Phe	Cys	Glu	Asn	Cys	Gly	Lys	Lys	Thr	Arg	Gly	Lys	Gln	Val	Leu
145				150						155				160	
Lys	Leu	Thr	His	Leu	Pro	Gln	Thr	Leu	Thr	Ile	His	Leu	Met	Arg	Phe
			165					170						175	
Ser	Ile	Arg	Asn	Ser	Gln	Thr	Arg	Lys	Ile	Cys	His	Ser	Leu	Tyr	Phe
		180						185					190		
Pro	Gln	Ser	Leu	Asp	Phe	Ser	Gln	Ile	Leu	Pro	Met	Lys	Arg	Glu	Ser
	195						200					205			
Cys	Asp	Ala	Glu	Glu	Gln	Ser	Gly	Gly	Gln	Tyr	Glu	Leu	Phe	Ala	Val
	210					215					220				
Ile	Ala	His	Val	Gly	Met	Ala	Asp	Ser	Gly	His	Tyr	Cys	Val	Tyr	Ile
225				230					235					240	
Arg	Asn	Ala	Val	Asp	Gly	Lys	Trp	Phe	Cys	Phe	Asn	Asp	Ser	Asn	Ile
			245					250						255	

653

Cys Leu Val Ser Trp Glu Asp Ile Gln Cys Thr Tyr Gly Asn Pro Asn
 260 265 270

Tyr His Trp Gln Glu Thr Ala Tyr Leu Leu Val Tyr Met Lys Met Glu
 275 280 285

Cys

<210> 710

<211> 244

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (189)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (229)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 710

Pro Ile Pro Thr Lys Leu Pro Leu Thr Lys Ala Glu Glu Lys Ala Leu
 1 5 10 15

Lys Arg Val Arg Arg Lys Ile Lys Asn Lys Ile Ser Ala Gln Glu Ser
 20 25 30

Arg Arg Lys Lys Lys Glu Tyr Val Glu Cys Leu Glu Lys Lys Val Glu
 35 40 45

Thr Phe Thr Ser Glu Asn Asn Glu Leu Trp Lys Lys Val Glu Thr Leu
 50 55 60

Glu Asn Ala Asn Arg Thr Leu Leu Gln Gln Leu Gln Lys Leu Gln Thr
 65 70 75 80

Leu Val Thr Asn Lys Ile Ser Arg Pro Tyr Lys Met Ala Ala Thr Gln
 85 90 95

Thr Gly Thr Cys Leu Met Val Ala Ala Leu Cys Phe Val Leu Val Leu
 100 105 110

Gly Ser Leu Val Pro Cys Leu Pro Glu Phe Ser Ser Gly Ser Gln Thr
 115 120 125

654

Val Lys Glu Asp Pro Leu Ala Ala Asp Gly Val Tyr Thr Ala Ser Gln
 130 135 140
 Met Pro Ser Arg Ser Leu Leu Phe Tyr Asp Asp Gly Ala Gly Leu Trp
 145 150 155 160
 Glu Asp Gly Arg Ser Thr Leu Leu Pro Met Glu Pro Pro Asp Gly Trp
 165 170 175
 Glu Ile Asn Pro Gly Gly Pro Ala Glu Gln Arg Pro Xaa Asp His Leu
 180 185 190
 Gln His Asp His Leu Asp Ser Thr His Glu Thr Thr Lys Tyr Leu Ser
 195 200 205
 Glu Ala Trp Pro Lys Asp Gly Gly Asn Gly Thr Ser Pro Asp Phe Ser
 210 215 220
 His Ser Lys Glu Xaa Phe His Asp Arg Asp Leu Gly Pro Asn Thr Thr
 225 230 235 240
 Ile Lys Leu Ser

<210> 711
 <211> 87
 <212> PRT
 <213> Homo sapiens

<400> 711
 Tyr Thr Cys Ile Thr Glu Ile Pro Ser Tyr Thr Asn Leu Phe Phe Leu
 1 5 10 15
 Leu Leu Asp Arg Asn Val Leu Leu Phe Gln Gln Phe Cys Glu Leu Lys
 20 25 30
 Ser Arg Val Thr Val Gly Leu Glu Trp Leu Val Tyr Leu Gly Met Tyr
 35 40 45
 Tyr Gln Asp Phe Thr Ala Met Leu Gly Asn Asp Arg Glu Asn Asp Arg
 50 55 60
 Asn Glu Ser His Gln Ile Phe Tyr Val Leu Ser Arg Ala Leu Ser Tyr
 65 70 75 80
 Gly Val Tyr Phe Pro Ile Lys
 85

655

<210> 712
 <211> 533
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (16)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (169)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (495)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 712
 Val Asp Pro Arg Val Arg Ser Val Phe Cys Lys Lys Phe Ala Glu Xaa
 1 5 10 15

 Leu Gly Ser Thr Glu Ala Lys Ala Val Pro Tyr Gln Lys Phe Glu Ala
 20 25 30

 His Pro Asn Asp Leu Tyr Val Glu Gly Leu Pro Glu Asn Ile Pro Phe
 35 40 45

 Arg Ser Pro Ser Trp Tyr Gly Ile Pro Arg Leu Glu Lys Ile Ile Gln
 50 55 60

 Val Gly Asn Arg Ile Lys Phe Val Ile Lys Arg Pro Glu Leu Leu Thr
 65 70 75 80

 His Ser Thr Thr Glu Val Thr Gln Pro Arg Thr Asn Thr Pro Val Lys
 85 90 95

 Glu Asp Trp Asn Val Arg Ile Thr Lys Leu Arg Lys Gln Val Glu Glu
 100 105 110

 Ile Phe Asn Leu Lys Phe Ala Gln Ala Leu Gly Leu Thr Glu Ala Val
 115 120 125

 Lys Val Pro Tyr Pro Val Phe Glu Ser Asn Pro Glu Phe Leu Tyr Val
 130 135 140

 Glu Gly Leu Pro Glu Gly Ile Pro Phe Arg Ser Pro Thr Trp Phe Gly
 145 150 155 160

Ile	Pro	Arg	Leu	Glu	Arg	Ile	Val	Xaa	Gly	Ser	Asn	Lys	Ile	Lys	Phe	165	170	175	
Val	Val	Lys	Lys	Pro	Glu	Leu	Val	Ile	Ser	Tyr	Leu	Pro	Pro	Gly	Met	180	185	190	
Ala	Ser	Lys	Ile	Asn	Thr	Lys	Ala	Leu	Gln	Ser	Pro	Lys	Arg	Pro	Arg	195	200	205	
Ser	Pro	Gly	Ser	Asn	Ser	Lys	Val	Pro	Glu	Ile	Glu	Val	Thr	Val	Glu	210	215	220	
Gly	Pro	Asn	Asn	Asn	Asn	Pro	Gln	Thr	Ser	Ala	Val	Arg	Thr	Pro	Thr	225	230	235	240
Gln	Thr	Asn	Gly	Ser	Asn	Val	Pro	Phe	Lys	Pro	Arg	Gly	Arg	Glu	Phe	245	250	255	
Ser	Phe	Glu	Ala	Trp	Asn	Ala	Lys	Ile	Thr	Asp	Leu	Lys	Gln	Lys	Val	260	265	270	
Glu	Asn	Leu	Phe	Asn	Glu	Lys	Cys	Gly	Glu	Ala	Leu	Gly	Leu	Lys	Gln	275	280	285	
Ala	Val	Lys	Val	Pro	Phe	Ala	Leu	Phe	Glu	Ser	Phe	Pro	Glu	Asp	Phe	290	295	300	
Tyr	Val	Glu	Gly	Leu	Pro	Glu	Gly	Val	Pro	Phe	Arg	Arg	Pro	Ser	Thr	305	310	315	320
Phe	Gly	Ile	Pro	Arg	Leu	Glu	Lys	Ile	Leu	Arg	Asn	Lys	Ala	Lys	Ile	325	330	335	
Lys	Phe	Ile	Ile	Lys	Lys	Pro	Glu	Met	Phe	Glu	Thr	Ala	Ile	Lys	Glu	340	345	350	
Ser	Thr	Ser	Ser	Lys	Ser	Pro	Pro	Arg	Lys	Ile	Asn	Ser	Ser	Pro	Asn	355	360	365	
Val	Asn	Thr	Thr	Ala	Ser	Gly	Val	Glu	Asp	Leu	Asn	Ile	Ile	Gln	Val	370	375	380	
Thr	Ile	Pro	Asp	Asp	Asp	Asn	Glu	Arg	Leu	Ser	Lys	Val	Glu	Lys	Ala	385	390	395	400
Arg	Gln	Leu	Arg	Glu	Gln	Val	Asn	Asp	Leu	Phe	Ser	Arg	Lys	Phe	Gly	405	410	415	
Glu	Ala	Ile	Gly	Met	Gly	Phe	Pro	Val	Lys	Val	Pro	Tyr	Arg	Lys	Ile	420	425	430	

657

Thr Ile Asn Pro Gly Cys Val Val Val Asp Gly Met Pro Pro Gly Val
 435 440 445

Ser Phe Lys Ala Pro Ser Tyr Leu Glu Ile Ser Ser Met Arg Arg Ile
 450 455 460

Leu Asp Ser Ala Glu Phe Ile Lys Phe Thr Val Ile Arg Pro Phe Pro
 465 470 475 480

Gly Leu Val Ile Asn Asn Gln Leu Val Asp Gln Ser Glu Ser Xaa Gly
 485 490 495

Pro Val Ile Gln Glu Ser Ala Glu Pro Ser Gln Leu Glu Val Pro Ala
 500 505 510

Thr Glu Glu Ile Lys Glu Thr Asp Gly Ser Ser Gln Ile Lys Gln Glu
 515 520 525

Pro Asp Pro Thr Trp
 530

<210> 713

<211> 252

<212> PRT

<213> Homo sapiens

<400> 713

Asn Ser Glu Tyr Cys Tyr Ser Gly Gly Ala Asp Ala Cys Ile His Ser
 1 5 10 15

Trp Lys Ile Pro Asp Leu Ser Met Asp Pro Tyr Asp Gly Tyr Asp Pro
 20 25 30

Ser Val Leu Ser His Val Leu Glu Gly His Gly Asp Ala Val Trp Gly
 35 40 45

Leu Ala Phe Ser Pro Thr Ser Gln Arg Leu Ala Ser Cys Ser Ala Asp
 50 55 60

Gly Thr Val Arg Ile Trp Asp Pro Ser Ser Ser Ser Pro Ala Cys Leu
 65 70 75 80

Cys Thr Phe Pro Thr Ala Ser Glu His Gly Val Pro Thr Ser Val Ala
 85 90 95

Phe Thr Ser Thr Glu Pro Ala His Ile Val Ala Ser Phe Arg Ser Gly
 100 105 110

658

Asp Thr Val Leu Tyr Asp Met Glu Val Gly Ser Ala Leu Leu Thr Leu
 115 120 125
 Glu Ser Arg Gly Ser Ser Gly Pro Thr Gln Ile Asn Gln Val Val Ser
 130 135 140
 His Pro Asn Gln Pro Leu Thr Ile Thr Ala His Asp Asp Arg Gly Ile
 145 150 155 160
 Arg Phe Leu Asp Asn Arg Thr Gly Lys Pro Val His Ser Met Val Ala
 165 170 175
 His Leu Asp Ala Val Thr Cys Leu Ala Val Asp Pro Asn Gly Ala Phe
 180 185 190
 Leu Met Ser Gly Ser His Asp Cys Ser Leu Arg Leu Trp Ser Leu Asp
 195 200 205
 Asn Lys Thr Cys Val Gln Glu Ile Thr Ala His Arg Lys Lys His Glu
 210 215 220
 Glu Ala Ile His Ala Val Ala Cys His Pro Ser Lys Ala Leu Ile Ala
 225 230 235 240
 Ser Ala Gly Ala Asp Ala Leu Ala Lys Val Phe Val
 245 250

<210> 714

<211> 201

<212> PRT

<213> Homo sapiens

<400> 714

Gly His Glu Arg Ser Cys Leu Leu Asn Gly Cys Gly Arg Leu Ala Ala
 1 5 10 15
 Leu Gly Arg Gly Leu Lys Ser Phe Leu Arg Gly Thr Ser Leu Cys Glu
 20 25 30
 Glu Ile Met Ser Leu Ala Leu Arg Ser Glu Leu Val Val Asp Lys Thr
 35 40 45
 Lys Arg Lys Lys Arg Arg Glu Leu Ser Glu Glu Gln Lys Gln Glu Ile
 50 55 60
 Lys Asp Ala Phe Glu Leu Phe Asp Thr Asp Lys Asp Glu Ala Ile Asp
 65 70 75 80
 Tyr His Glu Leu Lys Val Ala Met Arg Ala Leu Gly Phe Asp Val Lys

659

	85		90		95
Lys Ala Asp Val Leu Lys Ile Leu Lys Asp Tyr Asp Arg Glu Ala Thr					
	100		105		110
Gly Lys Ile Thr Phe Glu Asp Phe Asn Glu Val Val Thr Asp Trp Ile					
	115		120		125
Leu Glu Arg Asp Pro His Glu Glu Ile Leu Lys Ala Phe Lys Leu Phe					
	130		135		140
Asp Asp Asp Asp Ser Gly Lys Ile Ser Leu Arg Asn Leu Arg Arg Val					
	145		150		155
Ala Arg Glu Leu Gly Glu Asn Met Ser Asp Glu Glu Leu Arg Ala Met					
		165		170	175
Ile Glu Glu Phe Asp Lys Asp Gly Asp Gly Glu Ile Asn Gln Glu Glu					
	180		185		190
Phe Ile Ala Ile Met Thr Gly Asp Ile					
	195		200		

<210> 715

<211> 287

<212> PRT

<213> Homo sapiens

<400> 715

Ser His His Pro Pro Ala Ala Ala His His Ala Glu Ser Lys Asn Gly					
1		5		10	15
Trp Thr Leu Arg Gln Glu Ile Lys Ile Thr Ser Lys Phe Arg Gly Lys					
	20		25		30
Tyr Leu Ser Ile Met Pro Leu Gly Thr Ile His Cys Ile Phe His Ala					
	35		40		45
Thr Gly His His Tyr Thr Trp Lys Lys Val Thr Thr Thr Val His Asn					
	50		55		60
Ile Ile Val Gly Lys Leu Trp Ile Asp Gln Ser Gly Glu Ile Asp Ile					
	65		70		75
Val Asn His Lys Thr Gly Asp Lys Cys Asn Leu Lys Phe Val Pro Tyr					
	85		90		95
Ser Tyr Phe Ser Arg Asp Val Ala Arg Lys Val Thr Gly Glu Val Thr					
	100		105		110

660

Asp Pro Ser Gly Lys Val His Phe Ala Leu Leu Gly Thr Trp Asp Glu
 115 120 125

Lys Met Glu Cys Phe Lys Val Gln Pro Val Ile Gly Glu Asn Gly Gly
 130 135 140

Asp Ala Arg Gln Arg Gly His Glu Ala Glu Glu Ser Arg Val Met Leu
 145 150 155 160

Trp Lys Arg Asn Pro Leu Pro Lys Asn Ala Glu Asn Met Tyr Tyr Phe
 165 170 175

Ser Glu Leu Ala Leu Thr Leu Asn Ala Trp Glu Ser Gly Thr Ala Pro
 180 185 190

Thr Asp Ser Arg Leu Arg Pro Asp Gln Arg Leu Met Glu Asn Gly Arg
 195 200 205

Trp Asp Glu Ala Asn Ala Glu Lys Gln Arg Leu Glu Glu Lys Gln Arg
 210 215 220

Leu Ser Arg Lys Lys Arg Glu Ala Glu Ala Met Lys Ala Thr Glu Asp
 225 230 235 240

Gly Thr Pro Tyr Asp Pro Tyr Lys Ala Leu Trp Phe Glu Arg Lys Lys
 245 250 255

Asp Pro Val Thr Lys Glu Leu Thr His Ile Tyr Arg Gly Glu Tyr Trp
 260 265 270

Glu Cys Lys Glu Lys Gln Asp Trp Ser Ser Cys Pro Asp Ile Phe
 275 280 285

<210> 716

<211> 203

<212> PRT

<213> Homo sapiens

<400> 716

Ser Ser Tyr Met Arg Gly Gly Tyr Phe Ser Ser Ser His Glu Gly Phe
 1 5 10 15

Ser Tyr Glu Lys Asp Pro Arg Leu Tyr Phe Asp Asp Thr Cys Val Val
 20 25 30

Pro Glu Arg Leu Glu Gly Lys Val Lys Gln Glu Pro Thr Met Tyr Arg
 35 40 45

661

Glu Gly Pro Pro Tyr Gln Arg Arg Gly Ser Leu Gln Leu Trp Gln Phe
 50 55 60
 Leu Val Thr Leu Leu Asp Asp Pro Ala Asn Ala His Phe Ile Ala Trp
 65 70 75 80
 Thr Gly Arg Gly Met Glu Phe Lys Leu Ile Glu Pro Glu Glu Val Ala
 85 90 95
 Arg Arg Trp Gly Ile Gln Lys Asn Arg Pro Ala Met Asn Tyr Asp Lys
 100 105 110
 Leu Ser Arg Ser Leu Arg Tyr Tyr Tyr Glu Lys Gly Ile Met Gln Lys
 115 120 125
 Val Ala Gly Glu Arg Tyr Val Tyr Lys Phe Val Cys Asp Pro Asp Ala
 130 135 140
 Leu Phe Ser Met Ala Phe Pro Asp Asn Gln Arg Pro Phe Leu Lys Ala
 145 150 155 160
 Glu Ser Glu Cys His Leu Ser Glu Glu Asp Thr Leu Pro Leu Thr His
 165 170 175
 Phe Glu Asp Ser Pro Ala Tyr Leu Leu Asp Met Asp Arg Cys Ser Ser
 180 185 190
 Leu Pro Tyr Ala Glu Val Cys Leu Leu Ser Phe
 195 200

<210> 717

<211> 88

<212> PRT

<213> Homo sapiens

<400> 717

Ile Ile Gly Lys Glu Asp Asn Ser Glu Lys Pro Asn Ile Thr Lys Gly
 1 5 10 15
 Gly Leu Ala Leu Leu Glu Lys Tyr Thr Lys Leu Val Tyr Tyr Asn Thr
 20 25 30
 Trp Leu Tyr Val Gly Asn Val Thr Thr Gly Gln Ile His Leu Leu Cys
 35 40 45
 Ser Arg Gly Ser Pro Phe Leu Cys Arg Lys Tyr Asn Thr His Cys Met
 50 55 60
 Arg Ser Leu Arg Val Asp Ser Asn Pro Gly Leu Ser Thr Leu Asp Ile

65 70 75 80

Met His Val Gly Arg Trp Val Trp
85

<210> 718
<211> 359
<212> PRT
<213> Homo sapiens

<400> 718

Gly Leu Glu Tyr Pro Met Leu His Tyr Val Gly Phe Val Pro Val Ile
1 5 10 15
Asp Gly Asp Phe Ile Pro Ala Asp Pro Ile Asn Leu Tyr Ala Asn Ala
20 25 30
Ala Asp Ile Asp Tyr Ile Ala Gly Thr Asn Asn Met Asp Gly His Ile
35 40 45
Phe Ala Ser Ile Asp Met Pro Ala Ile Asn Lys Gly Asn Lys Lys Val
50 55 60
Thr Glu Glu Asp Phe Tyr Lys Leu Val Ser Glu Phe Thr Ile Thr Lys
65 70 75 80
Gly Leu Arg Gly Ala Lys Thr Thr Phe Asp Val Tyr Thr Glu Ser Trp
85 90 95
Ala Gln Asp Pro Ser Gln Glu Asn Lys Lys Lys Thr Val Val Asp Phe
100 105 110
Glu Thr Asp Val Leu Phe Leu Val Pro Thr Glu Ile Ala Leu Ala Gln
115 120 125
His Arg Ala Asn Ala Lys Ser Ala Lys Thr Tyr Ala Tyr Leu Phe Ser
130 135 140
His Pro Ser Arg Met Pro Val Tyr Pro Lys Trp Val Gly Ala Asp His
145 150 155 160
Ala Asp Asp Ile Gln Tyr Val Phe Gly Lys Pro Phe Ala Thr Pro Thr
165 170 175
Gly Tyr Arg Pro Gln Asp Arg Thr Val Ser Lys Ala Met Ile Ala Tyr
180 185 190
Trp Thr Asn Phe Ala Lys Thr Gly Asp Pro Asn Met Gly Asp Ser Ala
195 200 205

663

Val Pro Thr His Trp Glu Pro Tyr Thr Thr Glu Asn Ser Gly Tyr Leu
210 215 220

Glu Ile Thr Lys Lys Met Gly Ser Ser Ser Met Lys Arg Ser Leu Arg
225 230 235 240

Thr Asn Phe Leu Arg Tyr Trp Thr Leu Thr Tyr Leu Ala Leu Pro Thr
245 250 255

Val Thr Asp Gln Glu Ala Thr Pro Val Pro Pro Thr Gly Asp Ser Glu
260 265 270

Ala Thr Pro Val Pro Pro Thr Gly Asp Ser Glu Thr Ala Pro Val Pro
275 280 285

Pro Thr Gly Asp Ser Gly Ala Pro Pro Val Pro Pro Thr Gly Asp Ser
290 295 300

Gly Ala Pro Pro Val Thr Pro Thr Gly Asp Ser Glu Thr Ala Pro Val
305 310 315 320

Pro Pro Thr Gly Asp Ser Gly Ala Pro Pro Val Pro Pro Thr Gly Asp
325 330 335

Ser Glu Ala Ala Pro Val Pro Pro Thr Asp Asp Ser Lys Glu Ala Gln
340 345 350

Met Pro Ala Val Ile Arg Phe
355

<210> 719

<211> 134

<212> PRT

<213> Homo sapiens

<400> 719

Ser Ser Pro Leu Arg Pro Leu Leu Leu Ala Leu Ala Leu Ala Ser Val
1 5 10 15

Pro Cys Ala Gln Gly Ala Cys Pro Ala Ser Ala Asp Leu Lys His Ser
20 25 30

Asp Gly Thr Arg Thr Cys Ala Lys Leu Tyr Asp Lys Ser Asp Pro Tyr
35 40 45

Tyr Glu Asn Cys Cys Gly Gly Ala Glu Leu Ser Leu Glu Ser Gly Ala
50 55 60

664

Asp Leu Pro Tyr Leu Pro Ser Asn Trp Ala Asn Thr Ala Ser Ser Leu
 65 70 75 80

Val Val Ala Pro Arg Cys Glu Leu Thr Val Trp Ser Arg Gln Gly Lys
 85 90 95

Ala Gly Lys Thr His Lys Phe Ser Ala Gly Thr Tyr Pro Arg Leu Glu
 100 105 110

Glu Tyr Arg Arg Gly Ile Leu Gly Asp Trp Ser Asn Ala Ile Ser Ala
 115 120 125

Leu Tyr Cys Arg Cys Ser
 130

<210> 720
 <211> 47
 <212> PRT
 <213> Homo sapiens

<400> 720
 Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Gly Gly Arg Ser Arg Gly
 1 5 10 15

Ser Lys Leu Thr Tyr Ala Cys Met Arg Arg His Ser Ser Ser Ile Val
 20 25 30

Ser Pro Lys Phe Asn Ser Leu Ala Val Val Leu Gln Arg Arg Asp
 35 40 45

<210> 721
 <211> 122
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (114)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 721
 Lys Leu Phe Leu Leu Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys
 1 5 10 15

Gly Gly Arg Ser Arg Gly Ser Lys Leu Thr Tyr Ala Cys Met Arg Arg
 20 25 30

665

His Ser Ser Ser Ile Val Ser Pro Lys Phe Asn Ser Leu Ala Val Val
 35 40 45
 Leu Gln Arg Arg Asp Trp Glu Asn Pro Gly Val Thr Gln Leu Asn Arg
 50 55 60
 Leu Ala Ala His Pro Pro Phe Ala Ser Trp Arg Asn Ser Glu Glu Ala
 65 70 75 80
 Arg Thr Asp Arg Pro Ser Gln Gln Leu Arg Ser Leu Asn Gly Glu Trp
 85 90 95
 Asp Ala Pro Cys Ser Gly Ala Leu Ser Ala Ala Gly Val Val Val Thr
 100 105 110
 Arg Xaa Val Thr Ala Thr Leu Ala Ser Ala
 115 120

<210> 722
 <211> 100
 <212> PRT
 <213> Homo sapiens

<400> 722
 Ser Thr Ala Pro Thr Pro Val Met Asp Asn Ser Arg Asn Ala Pro Leu
 1 5 10 15
 Ala Gly Phe Gly Tyr Gly Leu Pro Ile Ser Arg Leu Tyr Ala Lys Tyr
 20 25 30
 Phe Gln Gly Asp Leu Asn Leu Tyr Ser Leu Ser Gly Tyr Gly Thr Asp
 35 40 45
 Ala Ile Ile Tyr Leu Lys Ala Leu Ser Ser Glu Ser Ile Glu Lys Leu
 50 55 60
 Pro Val Phe Asn Lys Ser Ala Phe Lys His Tyr Gln Met Ser Ser Glu
 65 70 75 80
 Ala Asp Asp Trp Cys Ile Pro Ser Arg Glu Pro Lys Asn Leu Ala Lys
 85 90 95
 Glu Val Ala Met
 100

<210> 723
 <211> 372

666

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (199)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 723

Arg	Gln	His	Lys	Ile	Ser	Glu	Thr	Leu	Glu	Ser	Arg	His	His	Lys	Ile
1				5					10					15	
Lys	Thr	Gly	Ser	Pro	Gly	Ser	Glu	Val	Val	Thr	Leu	Gln	Gln	Phe	Leu
			20					25					30		
Glu	Glu	Ser	Asn	Lys	Leu	Thr	Ser	Val	Gln	Ile	Lys	Ser	Ser	Ser	Gln
		35					40					45			
Glu	Asn	Leu	Leu	Asp	Glu	Val	Met	Lys	Ser	Leu	Ser	Val	Ser	Ser	Asp
	50					55					60				
Phe	Leu	Gly	Lys	Asp	Lys	Pro	Val	Ser	Cys	Gly	Leu	Ala	Arg	Ser	Val
65					70				75						80
Ser	Gly	Lys	Thr	Pro	Gly	Asp	Phe	Tyr	Asp	Arg	Arg	Thr	Thr	Lys	Pro
				85					90					95	
Glu	Phe	Leu	Arg	Pro	Gly	Pro	Arg	Lys	Thr	Glu	Asp	Thr	Tyr	Phe	Ile
			100					105					110		
Ser	Ser	Ala	Gly	Lys	Pro	Thr	Pro	Gly	Thr	Gln	Gly	Lys	Ile	Lys	Leu
		115					120					125			
Val	Lys	Glu	Ser	Ser	Leu	Ser	Arg	Gln	Ser	Lys	Asp	Ser	Asn	Pro	Tyr
	130					135					140				
Ala	Thr	Leu	Pro	Arg	Ala	Ser	Ser	Val	Ile	Ser	Thr	Ala	Glu	Gly	Thr
145					150					155					160
Thr	Arg	Arg	Thr	Ser	Ile	His	Asp	Phe	Leu	Thr	Lys	Asp	Ser	Arg	Leu
				165					170					175	
Pro	Ile	Ser	Val	Asp	Ser	Pro	Pro	Ala	Ala	Ala	Asp	Ser	Asn	Thr	Thr
			180					185					190		
Ala	Ala	Ser	Ser	Glu	Tyr	Xaa	Leu	His	Gln	Trp	Ser	Ser	His	Ile	Leu
	195						200					205			
Asp	Ile	Pro	Thr	His	Thr	Ile	Gly	Ser	Cys	Ala	Gln	Asn	Asp	Leu	Ala
	210					215					220				

667

Ile Asp Met Pro Glu Pro Leu Tyr Ala Gln Ala Arg Asn Ser Arg Thr
 225 230 235 240
 Gly Arg Ser His Phe Leu Asn Gln Thr Phe Ala Thr Ile Arg Met Pro
 245 250 255
 Ser Asp Ala Phe Gly Met Leu Ala Lys Asp Ser Ile Gly Pro Phe Thr
 260 265 270
 Val Ala His Ser Ser Gln Pro Phe Leu Ser Leu Asn Thr Glu Leu Val
 275 280 285
 Ser Asn Ile Ser Gly Leu Pro Pro Arg Pro Val Ile Arg Ile Thr Asp
 290 295 300
 Gln Ala Ser Ala Ser Leu Asp Lys Pro Ala Gln Lys Glu Asn Glu Gln
 305 310 315 320
 Phe Ser Asp His Gln Asn Pro Ser Asn Ser Asn Leu Gln Phe Ser Ile
 325 330 335
 Asn Ser Asn Asn Leu Val Thr Ser Ala Cys Leu Tyr Pro Asp Asp Thr
 340 345 350
 Glu Ala Ala Leu Leu Val Ser Glu Asp Asn Gln Thr Val Trp Tyr Glu
 355 360 365
 Tyr Gly Cys Ile
 370

<210> 724

<211> 72

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 724

Ser Xaa Gly Phe Asn Cys Thr Gln Phe Gly Ser Leu Gly Lys Ser His
 1 5 10 15
 Phe Phe Pro Ile Phe Cys His Ala Tyr Leu Leu Ser Leu Ser Val Leu
 20 25 30
 Gln Ile Ser Asn Lys Leu Leu Lys Thr Gln Arg Phe Gly Leu Leu Phe
 35 40 45

668

Leu Ser Leu Ala Val Arg His Gly Val Ser Gly Arg Arg Asn Arg Arg
50 55 60

Gly Asn Leu His Gly Asp Ser Tyr
65 70

<210> 725

<211> 73

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 725

Ala Ser Ile Asn Phe Tyr Phe Leu Trp Val Leu Leu Lys Asp Leu Asn
1 5 10 15

Met Glu Lys Ser Cys His Gly Ser Glu Leu His Asn Ala Leu Asn Arg
20 25 30

Arg Pro Ser Ile Phe Phe Thr Leu Ser Thr Leu Ala Ala Phe Cys Xaa
35 40 45

Phe Tyr Gln Asn Gly Leu Phe Leu Gly Lys Leu Phe Pro Pro Phe Trp
50 55 60

Met Gly Arg Gly Phe Pro Gln Trp Phe
65 70

<210> 726

<211> 406

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (160)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 726

Arg Phe Val Phe Ser Ser Glu Leu His Gly Lys Ser Ala Tyr Ser Lys
1 5 10 15

Asn	Ser	Cys	Ser	Asn	Gln	Arg	Asp	Ser	Thr	Ile	His	Val	Glu	Glu	Asn		
290						295				300							
Gly	Gln	Ser	Ser	Glu	Ser	Arg	Phe	Ser	Val	Gln	Met	Phe	Met	Phe	Ala		
305						310				315						320	
Gly	His	Tyr	Asp	Leu	Val	Phe	Leu	His	Cys	Glu	Ile	His	Leu	Cys	Asp		
325						330				335							
Ser	Leu	Asn	Glu	Gln	Cys	Gln	Pro	Ser	Cys	Ser	Arg	Ser	Gln	Val	Arg		
340						345				350							
Ser	Glu	Val	Pro	Ala	Ile	Asp	Leu	Ala	Arg	Val	Leu	Asp	Leu	Gly	Pro		
355						360				365							
Ile	Thr	Arg	Arg	Gly	Ala	Gln	Ser	Pro	Gly	Val	Met	Asn	Gly	Thr	Pro		
370						375				380							
Ser	Thr	Ala	Gly	Phe	Leu	Val	Ala	Trp	Pro	Met	Val	Leu	Leu	Thr	Val		
385						390				395						400	
Leu	Leu	Ala	Trp	Leu	Phe												
405																	

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<210> 727
<211> 159
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (144)
<223> Xaa equals any of the naturally occurring L-amino acids
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<400> 727
Gln His Ile Pro Tyr Arg Glu Asp Lys Asn Leu Thr Gly Thr Ala Arg
 1             5             10             15
Tyr Ala Ser Ile Asn Ala His Leu Gly Ile Glu Gln Ser Arg Arg Asp
          20             25             30
Asp Met Glu Ser Leu Gly Tyr Val Leu Met Tyr Phe Asn Arg Thr Ser
          35             40             45
Leu Pro Trp Gln Gly Leu Lys Ala Ala Thr Lys Lys Gln Lys Tyr Glu
          50             55             60
Lys Ile Ser Glu Lys Lys Met Ser Thr Pro Val Glu Val Leu Cys Lys
          65             70             75             80

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671

Gly Phe Pro Ala Glu Phe Ala Met Tyr Leu Asn Tyr Cys Arg Gly Leu
85 90 95

Arg Phe Glu Glu Ala Pro Asp Tyr Met Tyr Leu Arg Gln Leu Phe Arg
100 105 110

Ile Leu Phe Arg Thr Leu Asn His Gln Tyr Asp Tyr Thr Phe Asp Trp
115 120 125

Thr Met Leu Lys Gln Lys Ala Ala Gln Gln Ala Ala Ser Ser Ser Xaa
130 135 140

Ala Gly Ser Ala Gly Pro Asn Pro His Arg Phe Leu Ser Met Asn
145 150 155

<210> 728

<211> 226

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (108)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 728

Glu Pro Leu Xaa Pro Ala Gly Thr Gln Arg Val Cys Leu Val Xaa Pro
1 5 10 15

Asp Val Lys Trp Gly Pro Gly Lys Ser Gln Met Thr Arg Ala Glu Trp
20 25 30

Gln Val Ala Glu Ala Lys Thr Leu Val His Thr Leu Asp Gly Trp Ser
35 40 45

Val Val Gln Thr Met Val Val Ser Thr Lys Thr Pro Asp Arg Lys Leu
50 55 60

672

Ile Phe Gly Lys Gly Asn Phe Glu His Leu Thr Glu Lys Ile Arg Gly
 65 70 75 80
 Ser Pro Asp Val Thr Cys Val Phe Leu Asn Val Glu Arg Met Ala Ala
 85 90 95
 Pro Thr Lys Lys Glu Leu Glu Ala Ala Trp Gly Xaa Glu Val Phe Asp
 100 105 110
 Arg Phe Thr Val Val Leu His Ile Phe Arg Cys Asn Ala Arg Thr Lys
 115 120 125
 Glu Ala Arg Leu Gln Val Ala Leu Ala Glu Met Pro Leu His Arg Ser
 130 135 140
 Asn Leu Lys Arg Asp Val Ala His Leu Tyr Arg Gly Val Gly Ser Arg
 145 150 155 160
 Tyr Ile Met Gly Ser Gly Glu Ser Phe Met Gln Leu Gln Gln Arg Leu
 165 170 175
 Leu Arg Glu Lys Glu Ala Lys Ile Arg Lys Ala Leu Asp Arg Leu Arg
 180 185 190
 Lys Lys Arg His Leu Leu Arg Arg Gln Arg Arg Arg Arg Glu Phe Pro
 195 200 205
 Val Ile Ser Val Val Gly Tyr Thr Asn Leu Arg Lys Asp His Val Ile
 210 215 220
 Lys Asp
 225

<210> 729

<211> 61

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (54)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 729

673

Leu Cys Leu Gln Gly Tyr Tyr Arg Gly Ala Val Gly Ala Leu Leu Val
 1 5 10 15
 Phe Asp Leu Thr Lys His Gln Thr Tyr Ala Val Val Glu Arg Trp Leu
 20 25 30
 Lys Glu Leu Tyr Asp His Xaa Glu Ala Thr Ile Val Val Met Leu Val
 35 40 45
 Gly Asn Lys Met Thr Xaa Ala Arg Pro Gly Lys Cys Pro
 50 55 60

<210> 730

<211> 272

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (263)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 730

Pro Phe His Gln Gly Phe Arg Leu Leu Pro Ala Ala Trp Thr Pro Ala
 1 5 10 15
 Thr Gly Ser Pro Ser Gln Ser Ser Ile Lys Ala Trp Arg Thr Pro Cys
 20 25 30
 Leu Ser Val Pro Gly Lys Lys Lys Asn Gln Trp Phe Glu Arg Gln Val
 35 40 45
 Arg Trp Ser Thr Ala Thr Ser Val Thr Cys Cys Ser Ser Cys Thr Val
 50 55 60
 Ser Met Pro Pro Ser Pro Arg Ser Val Gly Trp Ser Gly Lys Arg Arg
 65 70 75 80
 Leu Arg Ile Leu Pro Ala Ser Pro Ser Ser Gly Ser Ala Ser Gly Trp
 85 90 95
 Thr Ile Arg Thr Ser Thr Ala Leu Gly Ile Ser Ser Val Ile Thr Ala
 100 105 110
 Trp Gly Val Leu Phe Asn Asp Ser Thr Arg Leu Ile Leu Tyr Asn Asp
 115 120 125
 Gly Asp Ser Leu Gln Tyr Ile Glu Arg Asp Gly Thr Glu Ser Tyr Leu
 130 135 140

674

Thr Val Ser Ser His Pro Asn Ser Leu Met Lys Lys Ile Thr Leu Leu
145 150 155 160

Lys Tyr Phe Arg Asn Tyr Met Ser Glu His Leu Leu Lys Ala Gly Ala
165 170 175

Asn Ile Thr Pro Arg Glu Gly Asp Glu Leu Ala Arg Leu Pro Tyr Leu
180 185 190

Arg Thr Trp Phe Arg Thr Arg Ser Ala Ile Ile Leu His Leu Ser Asn
195 200 205

Gly Ser Val Gln Ile Asn Phe Phe Gln Asp His Thr Lys Leu Ile Leu
210 215 220

Cys Pro Leu Met Ala Ala Val Thr Tyr Ile Asp Glu Lys Arg Asp Phe
225 230 235 240

Arg Thr Tyr Arg Leu Ser Leu Leu Glu Glu Tyr Gly Cys Cys Lys Glu
245 250 255

Leu Ala Ser Arg Leu Arg Xaa Arg Pro His Tyr Gly Gly Gln Ala Ala
260 265 270

<210> 731

<211> 175

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (137)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (167)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (168)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

675

<221> SITE

<222> (169)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 731

Leu Ser Cys Cys Arg Arg Arg Leu Cys Arg Arg Arg Glu Cys Gly Val
1 5 10 15

Gly Thr Gly Ala Ala Ala Ala Ala Thr Pro Gly Ile Phe Val Ala Ser
20 25 30

Ser Arg Pro Phe Cys Pro Ala Ala Phe Pro Gln Ser Ala Leu Pro Thr
35 40 45

Pro Leu Arg Pro Gly Ala Pro Ala Ser Ile Ser Arg Ser Leu Ser Thr
50 55 60

Thr His Thr Ala Pro Pro Ile Met Asp Pro Gly Ser Gly Gly Gly Gly
65 70 75 80

Gly Gly Gly Gly Gly Gly Gly Ser Ser Ser Gly Ser Ser Ser Ser Asp
85 90 95

Ser Ala Pro Asp Cys Trp Asp Gln Ala Asp Met Glu Ala Pro Gly Pro
100 105 110

Gly Pro Cys Gly Gly Gly Gly Ser Leu Ala Ala Ala Ala Glu Ala Gln
115 120 125

Arg Glu Asn Leu Ser Ala Ala Phe Xaa Arg Gln Leu Asn Val Asn Ala
130 135 140

Lys Pro Phe Val Pro Asn Val His Ala Ala Glu Phe Val Pro Ser Phe
145 150 155 160

Leu Arg Gly Pro Ala Ala Xaa Xaa Xaa Pro Ala Gly Gly Gly Arg
165 170 175

<210> 732

<211> 133

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (81)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

676

<221> SITE

<222> (122)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (129)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (130)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 732

Thr	Leu	Gly	Pro	Asp	Cys	Ser	Glu	Leu	Ala	Ala	Val	Leu	Leu	Arg	Met
1				5					10					15	

Asp	Gly	Arg	Leu	Asp	Gly	Trp	Val	Asp	Gly	Arg	Gly	Trp	Pro	Trp	Met
			20					25						30	

Arg	Ser	Ala	Leu	His	Thr	Gln	Thr	Arg	Trp	Glu	Arg	Phe	Val	Glu	His
		35					40					45			

Asp	Ser	Leu	Gln	Gln	Glu	Tyr	Met	Cys	Ala	Tyr	Leu	Cys	Gly	Gln	Lys
	50					55					60				

Tyr	Leu	His	Leu	Gly	Phe	Gly	Ala	Ile	Gln	Glu	Glu	Met	Ser	Gln	Lys
65					70					75					80

Xaa	Leu	Asn	Gln	Gly	Leu	Ser	Thr	Leu	Trp	Ile	Leu	Asn	Leu	Lys	Met
			85						90					95	

Gly	Ala	Gly	Leu	Cys	Leu	Lys	Ala	Leu	Leu	Ser	His	Leu	Leu	Gly	Pro
			100					105						110	

Trp	Phe	Asn	Lys	Ala	Leu	Ser	Lys	Leu	Xaa	Lys	Lys	Lys	Lys	Lys	Lys
		115					120					125			

Xaa	Xaa	Lys	Lys	Arg
		130		

<210> 733

<211> 61

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

677

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 733

His Tyr Asn Lys Arg Ser Thr Ile Thr Ser Arg Glu Ile Gln Thr Ala
 1 5 10 15

Val Arg Leu Leu Leu Pro Gly Glu Leu Ala Lys His Ala Val Ser Glu
 20 25 30

Gly Thr Lys Ala Val Thr Gln Val His Pro Ala Pro Lys Xaa Glu Leu
 35 40 45

Pro Gly Pro Gly Ala Arg Ser Leu Glu Ser Pro Ala Ala
 50 55 60

<210> 734

<211> 106

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 734

Gly Ser Asp Gly Pro Arg Glu Arg Ala Pro Val Ala Trp Leu Ser His
 1 5 10 15

Ser Ile Leu Ser Leu Ile Leu Asn Lys Tyr Phe Leu Trp Gly Phe Phe
 20 25 30

Phe Phe Leu Xaa Ala Val Val Cys Phe Lys Leu Thr Thr Trp Lys Lys
 35 40 45

His Leu Gly Tyr Leu Trp Phe Ser Cys Leu Val Pro Ala Ser Thr Pro
 50 55 60

Thr Pro Phe Glu Ser Gly Asp Ser Phe Phe Cys Val Glu Thr Arg Trp
 65 70 75 80

Pro Arg Gln Glu Val Lys Ala Ala Ile Arg Lys Ala Leu Gly Thr Leu
 85 90 95

Val Pro Val Ala Arg Leu Gln Val Thr Ser
 100 105

<210> 735

<211> 349

<212> PRT

<213> Homo sapiens

<400> 735

Ala Arg Gly Pro Gly Gly Ala Asp Ser Ser Lys Pro Arg Ile Leu Leu
 1 5 10 15

Met Gly Leu Arg Arg Ser Gly Lys Ser Ser Ile Gln Lys Val Val Phe
 20 25 30

His Lys Met Ser Pro Asn Glu Thr Leu Phe Leu Glu Ser Thr Asn Lys
 35 40 45

Ile Tyr Lys Asp Asp Ile Ser Asn Ser Ser Phe Val Asn Phe Gln Ile
 50 55 60

Trp Asp Phe Pro Gly Gln Met Asp Phe Phe Asp Pro Thr Phe Asp Tyr
 65 70 75 80

Glu Met Ile Phe Arg Gly Thr Gly Ala Leu Ile Tyr Val Ile Asp Ala
 85 90 95

Gln Asp Asp Tyr Met Glu Ala Leu Thr Arg Leu His Ile Thr Val Ser
 100 105 110

Lys Ala Tyr Lys Val Asn Pro Asp Met Asn Phe Glu Val Phe Ile His
 115 120 125

Lys Val Asp Gly Leu Ser Asp Asp His Lys Ile Glu Thr Gln Arg Asp
 130 135 140

Ile His Gln Arg Ala Asn Asp Asp Leu Ala Asp Ala Gly Leu Glu Lys
 145 150 155 160

Leu His Leu Ser Phe Tyr Leu Thr Ser Ile Tyr Asp His Ser Ile Phe
 165 170 175

Glu Ala Phe Ser Lys Val Val Gln Lys Leu Ile Pro Gln Leu Pro Thr
 180 185 190

Leu Glu Asn Leu Leu Asn Ile Phe Ile Ser Asn Ser Gly Ile Glu Lys
 195 200 205

Ala Phe Leu Phe Asp Val Val Ser Lys Ile Tyr Ile Ala Thr Asp Ser
 210 215 220

Ser Pro Val Asp Met Gln Ser Tyr Glu Leu Cys Cys Asp Met Ile Asp
 225 230 235 240

679

Val	Val	Ile	Asp	Val	Ser	Cys	Ile	Tyr	Gly	Leu	Lys	Glu	Asp	Gly	Ser
				245					250					255	

Gly Ser Ala Tyr Asp Lys Glu Ser Met Ala Ile Ile Lys Leu Asn Asn
260 265 270

Thr Thr Val Leu Tyr Leu Lys Glu Val Thr Lys Phe Leu Ala Leu Val
275 280 285

Cys Ile Leu Arg Glu Glu Ser Phe Glu Arg Lys Gly Leu Ile Asp Tyr
290 295 300

Asn Phe His Cys Phe Arg Lys Ala Ile His Glu Val Phe Glu Val Gly
305 310 315 320

Val Thr Ser His Arg Ser Cys Gly His Gln Thr Ser Ala Ser Ser Leu
325 330 335

Lys Ala Leu Thr His Asn Gly Thr Pro Arg Asn Ala Ile
340 345

<210> 736

<211> 468

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (250)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (301)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (306)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 736

Ala Ala Cys Cys Phe Ser Cys Trp Ala Ser Ser Gly Phe Ala Phe Val
1 5 10 15

Ala Ser Glu Pro Leu Ala Phe Lys Pro Leu Ser Leu Leu Leu Pro His
20 25 30

680

Thr Pro Leu Ser Leu Thr Pro Leu Phe Cys Cys Pro Val Thr Cys Pro
 35 40 45
 Lys Leu Cys Pro Glu Leu Arg Thr Phe Pro Phe Leu Ser Leu Glu Pro
 50 55 60
 Phe Phe Asp Ser Thr Lys Pro Ser Trp Tyr Pro Gly Met Thr Arg Leu
 65 70 75 80
 Leu Asp Ala Glu Trp Trp Arg Arg Ser Glu Ala Gly His Leu Arg Arg
 85 90 95
 Gln Val Ala Ala Val Leu Phe Phe Pro Glu Gly Thr Cys Ser Asn Lys
 100 105 110
 Lys Ala Leu Leu Lys Phe Lys Pro Gly Ala Phe Ile Ala Gly Val Pro
 115 120 125
 Val Gln Pro Val Leu Ile Arg Tyr Pro Asn Ser Leu Asp Thr Thr Ser
 130 135 140
 Trp Ala Trp Arg Gly Pro Gly Val Leu Lys Val Leu Trp Leu Thr Ala
 145 150 155 160
 Ser Gln Pro Cys Ser Ile Val Asp Val Glu Phe Leu Pro Val Tyr His
 165 170 175
 Pro Ser Pro Glu Glu Ser Arg Asp Pro Thr Leu Tyr Ala Asn Asn Val
 180 185 190
 Gln Arg Val Met Ala Gln Ala Leu Gly Ile Pro Ala Thr Glu Cys Glu
 195 200 205
 Phe Val Gly Ser Leu Pro Val Ile Val Val Gly Arg Leu Lys Val Ala
 210 215 220
 Leu Glu Pro Gln Leu Trp Glu Leu Gly Lys Val Leu Arg Lys Ala Gly
 225 230 235 240
 Leu Ser Ala Gly Tyr Val Asp Ala Gly Xaa Glu Pro Gly Arg Ser Arg
 245 250 255
 Met Ile Ser Gln Glu Glu Phe Ala Arg Gln Leu Gln Leu Ser Asp Pro
 260 265 270
 Gln Thr Val Ala Gly Ala Phe Gly Tyr Phe Gln Gln Asp Thr Lys Gly
 275 280 285
 Leu Val Asp Phe Arg Asp Val Ala Leu Ala Leu Ala Xaa Leu Asp Gly
 290 295 300

681

Gly Xaa Ser Leu Glu Glu Leu Thr Arg Leu Ala Phe Glu Leu Phe Ala
 305 310 315 320
 Glu Glu Gln Ala Glu Gly Pro Asn Arg Leu Leu Tyr Lys Asp Gly Phe
 325 330 335
 Ser Thr Ile Leu His Leu Leu Leu Gly Ser Pro His Pro Ala Ala Thr
 340 345 350
 Ala Leu His Ala Glu Leu Cys Gln Ala Gly Ser Ser Gln Gly Leu Ser
 355 360 365
 Leu Cys Gln Phe Gln Asn Phe Ser Leu His Asp Pro Leu Tyr Gly Lys
 370 375 380
 Leu Phe Ser Thr Tyr Leu Arg Pro Pro His Thr Ser Arg Gly Thr Ser
 385 390 395 400
 Gln Thr Pro Asn Ala Ser Ser Pro Gly Asn Pro Thr Ala Leu Ala Asn
 405 410 415
 Gly Thr Gly Lys His Pro Ser Arg Arg Glu Thr Glu Cys Leu Ser Leu
 420 425 430
 Ser Pro Pro Pro Pro Gln Gly Ser Ala Arg Gly Leu Pro Tyr Ala Ser
 435 440 445
 Ala Pro Ser Leu Leu Leu Phe Glu Phe Cys Tyr Cys Cys Leu Val Val
 450 455 460
 Val Phe Leu Ser
 465

<210> 737

<211> 184

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 737

Arg Glu Ser Pro Phe Pro Leu Pro Ser Gly Arg Glu Glu Arg Arg Gly
 1 5 10 15

Gln Gly Lys Lys Leu Leu Val Xaa Leu Thr Met Lys Thr Leu Leu Leu
 20 25 30

682

Leu Leu Leu Val Leu Leu Glu Leu Gly Glu Ala Gln Gly Ser Leu His
 35 40 45
 Arg Val Pro Leu Arg Arg His Pro Ser Leu Lys Lys Lys Leu Arg Ala
 50 55 60
 Arg Ser Gln Leu Ser Glu Phe Trp Lys Ser His Asn Leu Asp Met Ile
 65 70 75 80
 Gln Phe Thr Glu Ser Cys Ser Met Asp Gln Ser Ala Lys Glu Pro Leu
 85 90 95
 Ile Asn Tyr Leu Asp Met Glu Tyr Phe Gly Thr Ile Ser Ile Gly Ser
 100 105 110
 Pro Pro Gln Asn Phe Thr Val Ile Phe Asp Thr Gly Ser Ser Asn Leu
 115 120 125
 Trp Val Pro Ser Val Tyr Cys Thr Ser Pro Ala Cys Lys Thr His Ser
 130 135 140
 Arg Phe Gln Pro Ser Gln Ser Ser Thr Tyr Ser Gln Pro Gly Gln Ser
 145 150 155 160
 Phe Ser Ile Gln Tyr Gly Thr Gly Ser Leu Ser Gly Ile Ile Gly Ser
 165 170 175
 Arg Pro Ser Leu Cys Gly Lys Asp
 180

<210> 738

<211> 624

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (188)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (192)

683

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 738

His	Xaa	His	Ser	Phe	Ser	Ser	Gly	Tyr	Val	Glu	Met	Glu	Phe	Glu	Phe	1	5	10	15
Asp	Arg	Leu	Arg	Ala	Phe	Gln	Ala	Met	Gln	Val	His	Cys	Asn	Asn	Met	20	25	30	
His	Thr	Leu	Gly	Ala	Arg	Leu	Pro	Gly	Gly	Val	Glu	Cys	Arg	Phe	Arg	35	40	45	
Arg	Gly	Pro	Ala	Met	Ala	Trp	Glu	Gly	Glu	Pro	Met	Arg	His	Asn	Leu	50	55	60	
Gly	Gly	Asn	Leu	Gly	Asp	Pro	Arg	Ala	Arg	Ala	Val	Ser	Val	Pro	Leu	65	70	75	80
Gly	Gly	Arg	Val	Ala	Arg	Phe	Leu	Gln	Cys	Arg	Phe	Leu	Phe	Ala	Gly	85	90	95	
Pro	Trp	Leu	Leu	Phe	Ser	Glu	Ile	Ser	Phe	Ile	Ser	Asp	Val	Val	Asn	100	105	110	
Asn	Ser	Ser	Pro	Ala	Leu	Gly	Gly	Thr	Phe	Pro	Pro	Ala	Pro	Trp	Trp	115	120	125	
Pro	Pro	Gly	Pro	Pro	Pro	Thr	Asn	Phe	Ser	Ser	Leu	Glu	Leu	Glu	Pro	130	135	140	
Arg	Gly	Gln	Gln	Pro	Val	Ala	Lys	Ala	Glu	Gly	Ser	Pro	Thr	Ala	Ile	145	150	155	160
Leu	Ile	Gly	Cys	Leu	Val	Ala	Ile	Ile	Leu	Leu	Leu	Leu	Leu	Ile	Ile	165	170	175	
Ala	Leu	Met	Leu	Trp	Arg	Leu	His	Trp	Arg	Arg	Xaa	Leu	Ser	Lys	Xaa	180	185	190	
Glu	Arg	Arg	Val	Leu	Glu	Glu	Glu	Leu	Thr	Val	His	Leu	Ser	Val	Pro	195	200	205	
Gly	Asp	Thr	Ile	Leu	Ile	Asn	Asn	Arg	Pro	Gly	Pro	Arg	Glu	Pro	Pro	210	215	220	
Pro	Tyr	Gln	Glu	Pro	Arg	Pro	Arg	Gly	Asn	Pro	Pro	His	Ser	Ala	Pro	225	230	235	240
Cys	Val	Pro	Asn	Gly	Ser	Ala	Leu	Leu	Leu	Ser	Asn	Pro	Ala	Tyr	Arg	245	250	255	

Leu Leu Leu Ala Thr Tyr Ala Arg Pro Pro Arg Gly Pro Gly Pro Pro
 260 265 270

Thr Pro Ala Trp Ala Lys Pro Thr Asn Thr Gln Ala Tyr Ser Gly Asp
 275 280 285

Tyr Met Glu Pro Glu Lys Pro Gly Ala Pro Leu Leu Pro Pro Pro Pro
 290 295 300

Gln Asn Ser Val Pro His Tyr Ala Glu Ala Asp Ile Val Thr Leu Gln
 305 310 315 320

Gly Val Thr Gly Gly Asn Thr Tyr Ala Val Pro Ala Leu Pro Pro Gly
 325 330 335

Ala Val Gly Asp Gly Pro Pro Arg Val Asp Phe Pro Arg Ser Arg Leu
 340 345 350

Arg Phe Lys Glu Lys Leu Gly Glu Gly Gln Phe Gly Glu Val His Leu
 355 360 365

Cys Glu Val Asp Ser Pro Gln Asp Leu Val Ser Leu Asp Phe Pro Leu
 370 375 380

Asn Val Arg Lys Gly His Pro Leu Leu Val Ala Val Lys Ile Leu Arg
 385 390 395 400

Pro Asp Ala Thr Lys Asn Ala Arg Asn Asp Phe Leu Lys Glu Val Lys
 405 410 415

Ile Met Ser Arg Leu Lys Asp Pro Asn Ile Ile Arg Leu Leu Gly Val
 420 425 430

Cys Val Gln Asp Asp Pro Leu Cys Met Ile Thr Asp Tyr Met Glu Asn
 435 440 445

Gly Asp Leu Asn Gln Phe Leu Ser Ala His Gln Leu Glu Asp Lys Ala
 450 455 460

Ala Glu Gly Ala Pro Gly Asp Gly Gln Ala Ala Gln Gly Pro Thr Ile
 465 470 475 480

Ser Tyr Pro Met Leu Leu His Val Ala Ala Gln Ile Ala Ser Gly Met
 485 490 495

Arg Tyr Leu Ala Thr Leu Asn Phe Val His Arg Asp Leu Ala Thr Arg
 500 505 510

Asn Cys Leu Val Gly Glu Asn Phe Thr Ile Lys Ile Ala Asp Phe Gly
 515 520 525

685

Met Ser Arg Asn Leu Tyr Ala Gly Asp Tyr Tyr Arg Val Gln Gly Arg
 530 535 540

Ala Val Leu Pro Ile Arg Trp Met Ala Trp Glu Cys Ile Leu Met Gly
 545 550 555 560

Lys Phe Thr Thr Ala Ser Asp Val Trp Ala Phe Gly Val Thr Leu Trp
 565 570 575

Glu Val Leu Met Leu Cys Arg Ala Gln Pro Phe Gly Gln Leu Thr Asp
 580 585 590

Glu Gln Val Ile Glu Asn Ala Gly Glu Phe Phe Arg Asp Gln Gly Arg
 595 600 605

Gln Val Tyr Leu Ser Arg Pro Pro Ala Cys Pro Gln Ala Tyr Met Ser
 610 615 620

<210> 739

<211> 477

<212> PRT

<213> Homo sapiens

<400> 739

Phe Gly Thr Ser Trp Cys Ser Met Met Leu Pro Pro Trp Thr Leu Gly
 1 5 10 15

Leu Leu Leu Leu Ala Thr Val Arg Gly Lys Glu Val Cys Tyr Gly Gln
 20 25 30

Leu Gly Cys Phe Ser Asp Glu Lys Pro Trp Ala Gly Thr Leu Gln Arg
 35 40 45

Pro Val Lys Leu Leu Pro Trp Ser Pro Glu Asp Ile Asp Thr Arg Phe
 50 55 60

Leu Leu Tyr Thr Asn Glu Asn Pro Asn Asn Phe Gln Leu Ile Thr Gly
 65 70 75 80

Thr Glu Pro Asp Thr Ile Glu Ala Ser Asn Phe Gln Leu Asp Arg Lys
 85 90 95

Thr Arg Phe Ile Ile His Gly Phe Leu Asp Lys Ala Glu Asp Ser Trp
 100 105 110

Pro Ser Asp Met Cys Lys Lys Met Phe Glu Val Glu Lys Val Asn Cys

686

115	120	125
Ile Cys Val Asp Trp Arg His Gly Ser Arg Ala Met Tyr Thr Gln Ala 130 135 140		
Val Gln Asn Ile Arg Val Val Gly Ala Glu Thr Ala Phe Leu Ile Gln 145 150 155 160		
Ala Leu Ser Thr Gln Leu Gly Tyr Ser Leu Glu Asp Val His Val Ile 165 170 175		
Gly His Ser Leu Gly Ala His Thr Ala Ala Glu Ala Gly Arg Arg Leu 180 185 190		
Gly Gly Arg Val Gly Arg Ile Thr Gly Leu Asp Pro Ala Gly Pro Cys 195 200 205		
Phe Gln Asp Glu Pro Glu Glu Val Arg Leu Asp Pro Ser Asp Ala Val 210 215 220		
Phe Val Asp Val Ile His Thr Asp Ser Ser Pro Ile Val Pro Ser Leu 225 230 235 240		
Gly Phe Gly Met Ser Gln Lys Val Gly His Leu Asp Phe Phe Pro Asn 245 250 255		
Gly Gly Lys Glu Met Pro Gly Cys Lys Lys Asn Val Leu Ser Thr Ile 260 265 270		
Thr Asp Ile Asp Gly Ile Trp Glu Gly Ile Gly Gly Phe Val Ser Cys 275 280 285		
Asn His Leu Arg Ser Phe Glu Tyr Tyr Ser Ser Ser Val Leu Asn Pro 290 295 300		
Asp Gly Phe Leu Gly Tyr Pro Cys Ala Ser Tyr Asp Glu Phe Gln Glu 305 310 315 320		
Ser Lys Cys Phe Pro Cys Pro Ala Glu Gly Cys Pro Lys Met Gly His 325 330 335		
Tyr Ala Asp Gln Phe Lys Gly Lys Thr Ser Ala Val Glu Gln Thr Phe 340 345 350		
Phe Leu Asn Thr Gly Glu Ser Gly Asn Phe Thr Ser Trp Arg Tyr Lys 355 360 365		
Val Ser Val Thr Leu Ser Gly Lys Glu Lys Val Asn Gly Tyr Ile Arg 370 375 380		
Ile Ala Leu Tyr Gly Ser Asn Glu Asn Ser Lys Gln Tyr Glu Ile Phe		

687

385 390 395 400
 Lys Gly Ser Leu Lys Pro Asp Ala Ser His Thr Cys Ala Ile Asp Val
 405 410 415
 Asp Phe Asn Val Gly Lys Ile Gln Lys Val Lys Phe Leu Trp Asn Lys
 420 425 430
 Arg Gly Ile Asn Leu Ser Glu Pro Lys Leu Gly Ala Ser Gln Ile Thr
 435 440 445
 Val Gln Ser Gly Glu Asp Gly Thr Glu Tyr Asn Phe Cys Ser Ser Asp
 450 455 460
 Thr Val Glu Glu Asn Val Leu Gln Ser Leu Tyr Pro Cys
 465 470 475

<210> 740
 <211> 303
 <212> PRT
 <213> Homo sapiens

<400> 740
 Asp Phe Arg Thr Ala Pro Gly Arg Arg Gly Arg Arg Arg Thr Glu
 1 5 10 15
 Arg Pro Gly Arg Gly Gly Pro Ala Leu Gly Ser Gln Asp Ser Arg Gly
 20 25 30
 Ser Arg Val Arg Arg Ala Ala Ala Gly Leu Ser His Cys Ser Pro Pro
 35 40 45
 Ala Arg Leu Pro Ser Gly Ala Met Ala Gly Ser Ser Ser Leu Glu Ala
 50 55 60
 Val Arg Arg Lys Ile Arg Ser Leu Gln Glu Gln Ala Asp Ala Ala Glu
 65 70 75 80
 Glu Arg Ala Gly Thr Leu Gln Arg Glu Leu Asp His Glu Arg Lys Leu
 85 90 95
 Arg Glu Thr Ala Glu Ala Asp Val Ala Ser Leu Asn Arg Arg Ile Gln
 100 105 110
 Leu Val Glu Glu Glu Leu Asp Arg Ala Gln Glu Arg Leu Ala Thr Ala
 115 120 125
 Leu Gln Lys Leu Glu Glu Ala Glu Lys Ala Ala Asp Glu Ser Glu Arg
 130 135 140

688

Gly Met Lys Val Ile Glu Ser Arg Ala Gln Lys Asp Glu Glu Lys Met
145 150 155 160

Glu Ile Gln Glu Ile Gln Leu Lys Glu Ala Lys His Ile Ala Glu Asp
165 170 175

Ala Asp Arg Lys Tyr Glu Glu Val Ala Arg Lys Leu Val Ile Ile Glu
180 185 190

Ser Asp Leu Glu Arg Ala Glu Glu Arg Ala Glu Leu Ser Glu Gly Gln
195 200 205

Val Arg Gln Leu Glu Glu Gln Leu Arg Ile Met Asp Gln Thr Leu Lys
210 215 220

Ala Leu Met Ala Ala Glu Asp Lys Tyr Ser Gln Lys Glu Asp Arg Tyr
225 230 235 240

Glu Glu Glu Ile Lys Val Leu Ser Asp Lys Leu Lys Glu Ala Glu Thr
245 250 255

Arg Ala Glu Phe Ala Glu Arg Ser Val Thr Lys Leu Glu Lys Ser Ile
260 265 270

Asp Asp Leu Glu Glu Lys Val Ala His Ala Lys Glu Glu Asn Leu Ser
275 280 285

Met His Gln Met Leu Asp Gln Thr Leu Leu Glu Leu Asn Asn Met
290 295 300

<210> 741

<211> 363

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (144)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (340)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (344)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 741

His	Xaa	Pro	Arg	Leu	Pro	Ala	Leu	Pro	Pro	Arg	Leu	Leu	Ser	Pro	Ser
1				5					10					15	
Ala	Ala	Thr	Met	Ser	Ala	Ser	Ala	Val	Phe	Ile	Leu	Asp	Val	Lys	Gly
			20					25					30		
Lys	Pro	Leu	Ile	Ser	Arg	Asn	Tyr	Lys	Gly	Asp	Val	Ala	Met	Ser	Lys
		35					40					45			
Ile	Glu	His	Phe	Met	Pro	Leu	Leu	Val	Gln	Arg	Glu	Glu	Glu	Gly	Ala
	50					55					60				
Leu	Ala	Pro	Leu	Leu	Ser	His	Gly	Gln	Val	His	Phe	Leu	Trp	Ile	Lys
65					70					75					80
His	Ser	Asn	Leu	Tyr	Leu	Val	Ala	Thr	Thr	Ser	Lys	Asn	Ala	Asn	Ala
			85						90					95	
Ser	Leu	Val	Tyr	Ser	Phe	Leu	Tyr	Lys	Thr	Ile	Glu	Val	Phe	Cys	Glu
		100						105					110		
Tyr	Phe	Lys	Glu	Leu	Glu	Glu	Glu	Ser	Ile	Arg	Asp	Asn	Phe	Val	Ile
	115						120					125			
Val	Tyr	Glu	Leu	Leu	Asp	Glu	Leu	Met	Asp	Phe	Gly	Phe	Pro	Gln	Xaa
	130					135					140				
Thr	Asp	Ser	Lys	Ile	Leu	Gln	Glu	Tyr	Ile	Thr	Gln	Gln	Ser	Asn	Lys
145				150						155					160
Leu	Glu	Thr	Gly	Lys	Ser	Arg	Val	Pro	Pro	Thr	Val	Thr	Asn	Ala	Val
			165						170					175	
Ser	Trp	Arg	Ser	Glu	Gly	Ile	Lys	Tyr	Lys	Lys	Asn	Glu	Val	Phe	Ile
		180						185					190		
Asp	Val	Ile	Glu	Ser	Val	Asn	Leu	Leu	Val	Asn	Ala	Asn	Gly	Ser	Val
	195						200					205			
Leu	Leu	Ser	Glu	Ile	Val	Gly	Thr	Ile	Lys	Leu	Lys	Val	Phe	Leu	Ser
	210					215					220				
Gly	Met	Pro	Glu	Leu	Arg	Leu	Gly	Leu	Asn	Asp	Arg	Val	Leu	Phe	Glu

690

225						230										240
Leu	Thr	Gly	Arg	Ser	Lys	Asn	Lys	Ser	Val	Glu	Leu	Glu	Asp	Val	Lys	
				245					250					255		
Phe	His	Gln	Cys	Val	Arg	Leu	Ser	Arg	Phe	Asp	Asn	Asp	Arg	Thr	Ile	
			260					265					270			
Ser	Phe	Ile	Pro	Pro	Asp	Gly	Asp	Phe	Glu	Leu	Met	Ser	Tyr	Arg	Leu	
		275					280					285				
Ser	Thr	Gln	Val	Lys	Pro	Leu	Ile	Trp	Ile	Glu	Ser	Val	Ile	Glu	Lys	
	290					295					300					
Phe	Ser	His	Ser	Arg	Val	Glu	Ile	Met	Val	Lys	Ala	Lys	Gly	Gln	Phe	
305					310					315					320	
Lys	Lys	Gln	Ser	Val	Ala	Asn	Gly	Val	Glu	Ile	Ser	Val	Pro	Val	Pro	
				325					330					335		
Ser	Asp	Ala	Xaa	Ser	Pro	Arg	Xaa	Lys	Thr	Ser	Val	Gly	Ser	Ala	Lys	
		340						345					350			
Leu	Cys	Ala	Gly	Glu	Lys	Arg	Arg	Asp	Leu	Glu						
	355						360									

<210> 742

<211> 65

<212> PRT

<213> Homo sapiens

<400> 742

[illegible]

691

<210> 743
 <211> 95
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (4)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 743
 Thr Glu Lys Xaa Ile Lys Ile Ser Gly Phe Phe Leu Gly Tyr His Tyr
 1 5 10 15
 Cys Leu Ile Ser Leu Cys Gln Val Tyr Arg Thr Cys His Thr Phe Met
 20 25 30
 Ile Ser Ser Thr Glu Lys Leu Leu Ile Gln Ile Ser Pro Gly His Val
 35 40 45
 Arg Gln Asn Ile Ala Gly Trp Asp Phe Lys Val Ser Asp Asp Ala Phe
 50 55 60
 Pro Pro Ser Thr Asp Pro Pro Ala Pro Leu Ala Gly His Gly Glu Ala
 65 70 75 80
 Glu Ser His Leu Thr Ile Gln Lys Tyr Met Thr Thr Ser Pro Leu
 85 90 95

<210> 744
 <211> 237
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (207)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 744
 Arg Gly Gly Arg Ala Arg Gly Gly Gln Gly Pro Arg Leu Asn Ile Cys
 1 5 10 15
 Gly Ile Cys Gly Lys Ser Phe Gly Arg Gly Ser Thr Leu Ile Gln His
 20 25 30
 Gln Arg Ile His Thr Gly Glu Lys Pro Tyr Lys Cys Glu Val Cys Ser
 35 40 45

692

Lys Ala Phe Ser Gln Ser Ser Asp Leu Ile Lys His Gln Arg Thr His
 50 55 60
 Thr Gly Glu Arg Pro Tyr Lys Cys Pro Arg Cys Gly Lys Ala Phe Ala
 65 70 75 80
 Asp Ser Ser Tyr Leu Leu Arg His Gln Arg Thr His Ser Gly Gln Lys
 85 90 95
 Pro Tyr Lys Cys Pro His Cys Gly Lys Ala Phe Gly Asp Ser Ser Tyr
 100 105 110
 Leu Leu Arg His Gln Arg Thr His Ser His Glu Arg Pro Tyr Ser Cys
 115 120 125
 Thr Glu Cys Gly Lys Cys Tyr Ser Gln Asn Ser Ser Leu Arg Ser Ile
 130 135 140
 Arg Gly Cys Thr Pro Val Arg Gly Pro Ser Ala Val Ala Ser Ala Ala
 145 150 155 160
 Arg Ala Ser Pro Ser Gly Arg Pro Leu Ser Pro Met Pro Ala Ala Thr
 165 170 175
 Pro Gly Arg Ser Pro Ser Ser Ala Leu Ser Ala Ala Ser Ala Leu Ala
 180 185 190
 Arg Ala Arg Cys Trp Pro Ser Thr Pro Ala Pro Thr Cys Gln Xaa Ala
 195 200 205
 Pro Thr Ala Ala Pro Thr Ala Ala Arg Pro Ser Ile Ala Pro Pro Leu
 210 215 220
 Ser Ser Ser Thr Ser Ala Pro Thr Arg Ala Ser Gly Pro
 225 230 235

<210> 745

<211> 267

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (191)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 745

Asp Thr Ser Val Thr Met Trp Phe Leu Val Leu Cys Leu Ala Leu Ser
 1 5 10 15

693

Leu Gly Gly Thr Gly Ala Ala Pro Pro Ile Gln Ser Arg Ile Val Gly
 20 25 30

Gly Trp Glu Cys Glu Gln His Ser Gln Pro Trp Gln Ala Ala Leu Tyr
 35 40 45

His Phe Ser Thr Phe Gln Cys Gly Gly Ile Leu Val His Arg Gln Trp
 50 55 60

Val Leu Thr Ala Ala His Cys Ile Ser Asp Asn Tyr Gln Leu Trp Leu
 65 70 75 80

Gly Arg His Asn Leu Phe Asp Asp Glu Asn Thr Ala Gln Phe Val His
 85 90 95

Val Ser Glu Ser Phe Pro His Pro Gly Phe Asn Met Ser Leu Leu Glu
 100 105 110

Asn His Thr Arg Gln Ala Asp Glu Asp Tyr Ser His Asp Leu Met Leu
 115 120 125

Leu Arg Leu Thr Glu Pro Ala Asp Thr Ile Thr Asp Ala Val Lys Val
 130 135 140

Val Glu Leu Pro Thr Gln Glu Pro Glu Val Gly Ser Thr Cys Leu Ala
 145 150 155 160

Ser Gly Trp Gly Ser Ile Glu Pro Glu Asn Phe Ser Phe Pro Asp Asp
 165 170 175

Leu Gln Cys Val Asp Leu Lys Ile Leu Pro Asn Asp Glu Cys Xaa Lys
 180 185 190

Ala His Val Gln Lys Val Thr Asp Phe Met Leu Cys Val Gly His Leu
 195 200 205

Glu Gly Gly Lys Asp Thr Cys Val Gly Asp Ser Gly Gly Pro Leu Met
 210 215 220

Cys Asp Gly Val Leu Gln Gly Val Thr Ser Trp Gly Tyr Val Pro Cys
 225 230 235 240

Gly Thr Pro Asn Lys Pro Ser Val Ala Val Arg Val Leu Ser Tyr Val
 245 250 255

Lys Trp Ile Glu Asp Thr Ile Ala Glu Asn Ser
 260 265

694

<210> 746
 <211> 169
 <212> PRT
 <213> Homo sapiens

<400> 746
 Arg Leu Arg Ser Gly Pro Trp Ile Ser Ser Lys Met Ala Ala Arg Ser
 1 5 10 15
 Val Ser Gly Ile Thr Arg Arg Val Phe Met Trp Thr Val Ser Gly Thr
 20 25 30
 Pro Cys Arg Glu Phe Trp Ser Arg Phe Arg Lys Glu Lys Glu Pro Val
 35 40 45
 Val Val Glu Thr Val Glu Glu Lys Lys Glu Pro Ile Leu Val Cys Pro
 50 55 60
 Pro Leu Arg Ser Arg Ala Tyr Thr Pro Pro Glu Asp Leu Gln Ser Arg
 65 70 75 80
 Leu Glu Ser Tyr Val Lys Glu Val Phe Gly Ser Ser Leu Pro Ser Asn
 85 90 95
 Trp Gln Asp Ile Ser Leu Glu Asp Ser Arg Leu Lys Phe Asn Leu Leu
 100 105 110
 Ala His Leu Ala Asp Asp Leu Gly His Val Val Pro Asn Ser Arg Leu
 115 120 125
 His Gln Met Cys Arg Val Arg Asp Val Leu Asp Phe Tyr Asn Val Pro
 130 135 140
 Ile Gln Asp Arg Ser Lys Phe Asp Glu Leu Ser Ala Ser Asn Leu Pro
 145 150 155 160
 Pro Asn Leu Lys Ile Thr Trp Ser Tyr
 165

<210> 747
 <211> 414
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (14)
 <223> Xaa equals any of the naturally occurring L-amino acids

695

<400> 747

Cys Leu Val Asn Leu Pro Pro Thr Gln Thr Gln Ala Val Xaa Arg Pro
 1 5 10 15
 Ser Thr Leu Leu Pro Asn Tyr Val Leu Lys Pro Phe Phe Pro Asn Leu
 20 25 30
 Phe Pro Pro Pro Glu Ser Trp Phe Gly Ser Trp Leu Pro Ile Cys Leu
 35 40 45
 Leu Leu Leu Thr Trp Val Asn Cys Ser Ser Val Arg Trp Ala Thr Arg
 50 55 60
 Val Gln Asp Ile Phe Thr Ala Gly Lys Leu Leu Ala Leu Ala Leu Ile
 65 70 75 80
 Ile Ile Met Gly Ile Val Gln Ile Cys Lys Gly Glu Tyr Phe Trp Leu
 85 90 95
 Glu Pro Lys Asn Ala Phe Glu Asn Phe Gln Glu Pro Asp Ile Gly Leu
 100 105 110
 Val Ala Leu Ala Phe Leu Gln Gly Ser Phe Ala Tyr Gly Gly Trp Asn
 115 120 125
 Phe Leu Asn Tyr Val Thr Glu Glu Leu Val Asp Pro Tyr Lys Asn Leu
 130 135 140
 Pro Arg Ala Ile Phe Ile Ser Ile Pro Leu Val Thr Phe Val Tyr Val
 145 150 155 160
 Phe Ala Asn Val Ala Tyr Val Thr Ala Met Ser Pro Gln Glu Leu Leu
 165 170 175
 Ala Ser Asn Ala Val Ala Val Thr Phe Gly Glu Lys Leu Leu Gly Val
 180 185 190
 Met Ala Trp Ile Met Pro Ile Ser Val Ala Leu Ser Thr Phe Gly Gly
 195 200 205
 Val Asn Gly Ser Leu Phe Thr Ser Ser Arg Leu Phe Phe Ala Gly Ala
 210 215 220
 Arg Glu Gly His Leu Pro Ser Val Leu Ala Met Ile His Val Lys Arg
 225 230 235 240
 Cys Thr Pro Ile Pro Ala Leu Leu Phe Thr Cys Ile Ser Thr Leu Leu
 245 250 255
 Met Leu Val Thr Ser Asp Met Tyr Thr Leu Ile Asn Tyr Val Gly Phe
 260 265 270

Ile Asn Tyr Leu Phe Tyr Gly Val Thr Val Ala Gly Gln Ile Val Leu
 275 280 285

Arg Trp Lys Lys Pro Asp Ile Pro Arg Pro Ile Lys Ile Asn Leu Leu
 290 295 300

Phe Pro Ile Ile Tyr Leu Leu Phe Trp Ala Phe Leu Leu Val Phe Ser
 305 310 315 320

Leu Trp Ser Glu Pro Val Val Cys Gly Ile Gly Leu Ala Ile Met Leu
 325 330 335

Thr Gly Val Pro Val Tyr Phe Leu Gly Val Tyr Trp Gln His Lys Pro
 340 345 350

Lys Cys Phe Ser Asp Phe Ile Glu Leu Leu Thr Leu Val Ser Gln Lys
 355 360 365

Met Cys Val Val Val Tyr Pro Glu Val Glu Arg Gly Ser Gly Thr Glu
 370 375 380

Glu Ala Asn Glu Asp Met Glu Glu Gln Gln Gln Pro Met Tyr Gln Pro
 385 390 395 400

Thr Pro Thr Lys Asp Lys Asp Val Ala Gly Gln Pro Gln Pro
 405 410

<210> 748

<211> 78

<212> PRT

<213> Homo sapiens

<400> 748

His Leu Ser Gln Glu His Leu Ser Lys Ser Ile Tyr Pro Lys Ser Ile
 1 5 10 15

Tyr Pro Asp Asp Phe Ser Ile Tyr Pro Lys Ser Ile Tyr Pro Lys Asp
 20 25 30

Ser Ile Tyr Pro Lys Ser Ile Tyr Pro Arg Ala Phe Phe Pro Arg Leu
 35 40 45

Phe Ile Pro Lys Ile Leu Ala Phe Ile Pro Arg Ala Phe Thr Gln Glu
 50 55 60

His Leu Ser Gln Gly Ile Leu Phe Cys Phe Val Leu Phe Phe
 65 70 75

<210> 749

<211> 93

<212> PRT

<213> Homo sapiens

<400> 749

Met Cys Gly Cys Ser Arg His Phe Ser Val Val Val Cys Ser His Phe
 1 5 10 15

Gly Pro Thr Pro Ala Ser Leu Ala Thr Leu Gln Leu Cys Ser Asp Phe
 20 25 30

Cys Val Tyr Ala Trp Cys Ala Ser Leu Ala Ala Phe Ser Ser Met Gln
 35 40 45

Pro Gly Val Asp Val Gly Lys Arg Asp Ala Phe Leu Leu Trp Lys Leu
 50 55 60

Ser Gly Lys Leu Val Ser Ile Ser Pro Pro Leu Pro Gly Leu Pro Cys
 65 70 75 80

Thr Pro Lys Asp Phe Val Gln Met Gly Ser Ser Ile Phe
 85 90

<210> 750

<211> 91

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 750

Leu Cys Phe Trp His Ile Thr Val Leu Cys His Tyr Tyr Lys Val Lys
 1 5 10 15

His Leu Gln Arg Arg Met Ser Leu Lys Met Arg Asp Leu Leu Xaa Ile
 20 25 30

Asn Met Pro Met Arg Ala Tyr Leu Ile Ser Leu Tyr Asn Met Gln Pro
 35 40 45

Asn Gln Thr Phe Thr Pro Ala Glu Lys Cys Cys Pro Gly Glu Lys Glu
 50 55 60

698

Ile Tyr Lys Asp Arg Leu Ser Pro Phe Phe Cys Cys Ser Thr Lys His
 65 70 75 80

Ser Lys Lys Leu Glu Ser Phe Thr Leu Glu Ile
 85 90

<210> 751

<211> 94

<212> PRT

<213> Homo sapiens

<400> 751

Val Arg Cys Ser Phe Gln Leu Thr Ser Gly Arg Arg Thr Ser Ala Met
 1 5 10 15

Lys Val Thr Gly Ile Phe Leu Leu Ser Ala Leu Ala Leu Leu Ser Leu
 20 25 30

Ser Gly Asn Thr Gly Ala Asp Ser Leu Gly Arg Glu Ala Lys Cys Tyr
 35 40 45

Asn Glu Leu Asn Gly Cys Thr Lys Ile Tyr Asp Pro Val Cys Gly Thr
 50 55 60

Asp Gly Asn Thr Tyr Pro Asn Glu Cys Val Leu Cys Phe Glu Asn Arg
 65 70 75 80

Lys Arg Gln Thr Ser Ile Leu Ile Gln Lys Ser Gly Pro Cys
 85 90

<210> 752

<211> 78

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (72)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 752

Val Arg Gly Ala Gly Val Leu Glu Pro Gln Thr Ala Gln Glu Ala Pro
 1 5 10 15

Gly Arg Cys Arg Gly Ala Leu Trp Trp Val Pro Pro Thr Lys Arg Glu
 20 25 30

Gly Leu Val Cys Pro Ser Pro Ser Gly Thr Thr Gln Pro Ser Ala Ala
 35 40 45

Leu Ser Gln Thr Phe Leu Pro Cys Pro Ala Glu Leu Val Tyr Gln Glu
 50 55 60

Val Ile Leu Gln Pro Glu Arg Xaa Val Leu Trp Lys Arg Gln
 65 70 75

<210> 753

<211> 174

<212> PRT

<213> Homo sapiens

<400> 753

Ala Arg Asp Ser Leu Pro Leu Ser Met Ala Gln Thr Asn Ser Phe Phe
 1 5 10 15

Met Leu Ile Ser Ser Leu Met Phe Leu Ser Leu Ser Gln Gly Gln Glu
 20 25 30

Ser Gln Thr Glu Leu Pro Asn Pro Arg Ile Ser Cys Pro Glu Gly Thr
 35 40 45

Asn Ala Tyr Arg Ser Tyr Cys Tyr Tyr Phe Asn Glu Asp Pro Glu Thr
 50 55 60

Trp Val Asp Ala Asp Leu Tyr Cys Gln Asn Met Asn Ser Gly Asn Leu
 65 70 75 80

Val Ser Val Leu Thr Gln Ala Glu Gly Ala Phe Val Ala Ser Leu Ile
 85 90 95

Lys Glu Ser Ser Thr Asp Asp Ser Asn Val Trp Ile Gly Leu His Asp
 100 105 110

Pro Lys Lys Asn Arg Arg Trp His Trp Ser Ser Gly Ser Leu Val Ser
 115 120 125

Tyr Lys Ser Trp Asp Thr Gly Ser Pro Ser Ser Ala Asn Ala Gly Tyr
 130 135 140

Cys Ala Ser Leu Thr Ser Cys Ser Gly Phe Lys Lys Trp Lys Asp Glu
 145 150 155 160

Ser Cys Glu Lys Lys Phe Ser Phe Val Cys Lys Phe Lys Asn
 165 170

700

<210> 754

<211> 85

<212> PRT

<213> Homo sapiens

<400> 754

Cys Arg Pro Arg Ser Gly Ile Pro Gly Glu Glu Glu Glu Glu Glu
 1 5 10 15
 Asp Ser Gln Ala Glu Val Leu Lys Val Ile Arg Gln Ser Ala Gly Gln
 20 25 30
 Lys Thr Thr Cys Gly Gln Gly Leu Glu Gly Pro Trp Glu Arg Pro Pro
 35 40 45
 Pro Leu Asp Glu Ser Glu Arg Asp Gly Gly Ser Glu Asp Gln Val Glu
 50 55 60
 Asp Pro Ala Leu Ser Glu Pro Gly Glu Glu Pro Gln Arg Pro Ser Pro
 65 70 75 80
 Ser Glu Pro Gly Thr
 85

<210> 755

<211> 121

<212> PRT

<213> Homo sapiens

<400> 755

Gly Arg Val Gly Glu Gln Thr Val Pro Tyr Gly Leu Ser Asn Tyr Arg
 1 5 10 15
 Gly Ser Phe Arg Gly Lys Arg Ser Ala Gly Pro Leu Pro Gly Asn Leu
 20 25 30
 Gln Leu Ser His Arg Pro His Leu Arg Cys Ala Cys Val Gly Arg Tyr
 35 40 45
 Asp Lys Ala Cys Leu His Phe Cys Thr Gln Thr Leu Asp Val Ser Ser
 50 55 60
 Asn Ser Arg Thr Ala Glu Lys Thr Asp Lys Glu Glu Glu Gly Lys Val
 65 70 75 80
 Glu Val Lys Asp Gln Gln Ser Lys Gln Ala Leu Asp Leu His His Pro
 85 90 95

Lys Leu Met Pro Gly Ser Gly Leu Ala Leu Ala Pro Ser Thr Cys Pro
100 105 110

Arg Cys Leu Phe Gln Glu Gly Ala Pro
115 120

<210> 756

<211> 39

<212> PRT

<213> Homo sapiens

<400> 756

Gly Phe Ser Cys Leu Ser Leu Leu Ser Ser Cys Asp Tyr Arg His Ala
1 5 10 15

Pro Pro Cys Leu Ala Asn Phe Ile Phe Phe Ser Arg Asp Arg Ile Ser
20 25 30

Pro Cys Trp Ser Gly Trp Ser
35

<210> 757

<211> 63

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (56)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 757

Thr Ser Ser Thr Ile Asn Cys Ser Leu Gly Thr Phe Tyr Ala Gln Asn
1 5 10 15

Cys Ala Pro Ser Ser Glu Gln Gln Val Phe Asn Gly Pro Cys Asp Glu
20 25 30

Lys Gly Pro Ile Lys Ala Ala Gly Met Gly His Ser Pro Thr Pro His
35 40 45

Gly Pro Gly His Cys His Ser Xaa Cys Pro Ala Ser Pro Gly Leu
50 55 60

<210> 758

<211> 65
 <212> PRT
 <213> Homo sapiens

<400> 758

Leu Leu Asp Cys Phe Cys Asp Thr Asp Thr Ser Pro Leu Ser Glu His
 1 5 10 15

Pro Leu Pro Leu Asp Ser Val His Arg Lys Leu Val Ala Pro Leu Asn
 20 25 30

Thr Leu Phe Leu Pro Cys Asn Thr Ala Ser Asp Phe Glu Pro Lys Asn
 35 40 45

Lys Asp Tyr Ser Ser Gln Thr Pro Ser Gln Ile Asn Phe Val Thr Lys
 50 55 60

Leu
 65

<210> 759
 <211> 101
 <212> PRT
 <213> Homo sapiens

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 759

His Pro Ala Ser Asn Leu Gly Asp Phe Arg Arg Cys Leu Asn Pro Asp
 1 5 10 15

Leu Ser Val Xaa Trp Pro His Cys Glu Pro Arg Asn Ala Thr Pro Trp
 20 25 30

Lys Pro His Thr Leu Leu Ser Pro Ser Val Leu Ile Pro Val Leu Leu
 35 40 45

Xaa Val Ser Pro Ser Trp Leu Phe Leu Glu Ser Leu Ser Phe Pro His
 50 55 60

Phe Pro Leu Pro Ala Ala Val Leu Ser Pro Val Ala Leu Asp Leu His

703

65 70 75 80
 Ser Trp Ser Asn Thr Leu Asn Ser Asn Thr Ser Val Phe Leu Pro His
 85 90 95
 Pro Leu Asp Lys Ser
 100

<210> 760

<211> 61

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (61)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 760

Ile Arg Ile Ala Ala Leu Asp Asp Phe Arg Thr Ser Leu Thr Met Ser
 1 5 10 15

Ser Thr Arg Ser Gln Asn Pro His Gly Leu Lys Gln Ile Gly Leu Asp
 20 25 30

Gln Ile Xaa Gly Arg Pro Gln Ser Xaa Ala Ser Ser Arg Cys Tyr Thr
 35 40 45

Arg Ala Glu His Gly Pro Ser Ser Arg Tyr Met Glu Xaa
 50 55 60

<210> 761

<211> 255

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (186)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (195)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (209)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 761

Leu	Thr	Pro	Ser	Gly	Phe	Arg	Ser	Gly	Arg	Ser	Val	Pro	Thr	Met	Gly
1				5				10						15	

Leu	Glu	Leu	Tyr	Leu	Asp	Leu	Leu	Ser	Gln	Pro	Cys	Arg	Ala	Val	Tyr
			20					25					30		

Ile	Phe	Ala	Lys	Lys	Asn	Asp	Ile	Pro	Phe	Glu	Leu	Arg	Ile	Val	Asp
		35					40					45			

Leu	Ile	Lys	Gly	Gln	His	Leu	Ser	Asp	Ala	Phe	Ala	Gln	Val	Asn	Pro
	50					55					60				

Leu	Lys	Lys	Val	Pro	Ala	Leu	Lys	Asp	Gly	Asp	Phe	Thr	Leu	Thr	Glu
65					70					75					80

Ser	Val	Ala	Ile	Leu	Leu	Tyr	Leu	Thr	Arg	Lys	Tyr	Lys	Val	Pro	Asp
				85					90					95	

Tyr	Trp	Tyr	Pro	Gln	Asp	Leu	Gln	Ala	Arg	Ala	Arg	Val	Asp	Glu	Tyr
			100					105					110		

Leu	Ala	Trp	Gln	His	Thr	Thr	Leu	Arg	Arg	Ser	Cys	Leu	Arg	Ala	Leu
		115					120					125			

Trp	His	Lys	Val	Met	Phe	Pro	Val	Phe	Leu	Gly	Glu	Pro	Val	Ser	Pro
	130					135					140				

Gln	Thr	Leu	Ala	Ala	Thr	Leu	Ala	Glu	Leu	Asp	Val	Thr	Leu	Gln	Leu
145					150					155					160

Leu	Glu	Asp	Lys	Phe	Leu	Gln	Asn	Lys	Ala	Phe	Leu	Thr	Gly	Pro	His
			165						170					175	

Ile	Ser	Leu	Ala	Asp	Leu	Val	Ala	Ile	Xaa	Glu	Leu	Met	His	Pro	Val
			180					185						190	

705

Gly Ala Xaa Leu Pro Ser Leu Arg Arg Pro Thr Gln Ala Gly His Met
 195 200 205

Xaa Ala Gly Val Glu Ala Ala Val Gly Glu Asp Leu Phe Gln Glu Ala
 210 215 220

His Glu Val Ile Leu Lys Ala Lys Asp Asp Phe Pro Pro Ala Asp Pro
 225 230 235 240

Thr Ile Lys Gln Lys Leu Met Pro Trp Val Leu Ala Met Ile Arg
 245 250 255

<210> 762

<211> 85

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 762

Asp Glu Tyr Leu Ala Trp Gln His Thr Thr Leu Arg Arg Ser Cys Leu
 1 5 10 15

Arg Ala Leu Trp His Pro Val Gly Ala Gly Cys Gln Val Phe Glu Gly
 20 25 30

Arg Pro Lys Leu Ala Thr Trp Arg Xaa Arg Val Glu Ala Ala Val Gly
 35 40 45

Glu Asp Leu Phe Gln Glu Ala His Glu Val Ile Leu Lys Ala Lys Asp
 50 55 60

Phe Pro Pro Ala Asp Pro Thr Ile Lys Gln Lys Leu Met Pro Trp Val
 65 70 75 80

Leu Ala Met Ile Arg
 85

<210> 763

<211> 136

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 763

His	Glu	Xaa	Arg	Glu	His	Ala	Gly	Pro	Lys	Met	Ala	Ala	Ser	Arg	Tyr
1				5					10					15	

Arg	Arg	Phe	Leu	Lys	Leu	Cys	Glu	Glu	Trp	Pro	Val	Asp	Glu	Thr	Lys
			20					25					30		

Arg	Gly	Arg	Asp	Leu	Gly	Ala	Tyr	Leu	Arg	Gln	Arg	Val	Ala	Gln	Ala
			35				40					45			

Phe	Arg	Glu	Gly	Glu	Asn	Thr	Gln	Val	Ala	Glu	Pro	Glu	Ala	Cys	Asp
	50					55					60				

Gln	Met	Tyr	Glu	Ser	Leu	Ala	Arg	Leu	His	Ser	Asn	Tyr	Tyr	Lys	His
65					70					75					80

Lys	Tyr	Pro	Arg	Pro	Arg	Asp	Thr	Ser	Phe	Ser	Gly	Leu	Ser	Leu	Glu
				85					90					95	

Glu	Tyr	Lys	Leu	Ile	Leu	Ser	Thr	Asp	Thr	Leu	Glu	Glu	Leu	Lys	Glu
			100					105					110		

Ile	Asp	Lys	Gly	Met	Trp	Lys	Lys	Leu	Gln	Glu	Lys	Phe	Ala	Pro	Lys
		115					120					125			

Gly	Pro	Glu	Glu	Asp	His	Lys	Ala
	130					135	

<210> 764

<211> 302

<212> PRT

<213> Homo sapiens

<400> 764

Pro	Gly	Leu	His	Pro	Gly	Asn	Arg	Gly	Leu	Arg	Ile	Leu	Leu	Thr	Leu
1				5					10					15	

Pro	Pro	Asn	Trp	Pro	Gln	Tyr	Ile	His	Ser	Leu	Arg	Lys	Lys	Asn	Lys
			20					25					30		

Val	Pro	Thr	Ala	Lys	Lys	Arg	Asn	Arg	Ile	Lys	Arg	Tyr	Val	Ala	Ala
			35				40					45			

Gly	Arg	Ala	Ser	Met	Asn	Ser	Met	Thr	Ser	Ala	Val	Pro	Val	Ala	Asn
	50						55					60			

Ser Val Leu Val Val Ala Pro His Asn Gly Tyr Pro Val Thr Pro Gly
 65 70 75 80
 Ile Met Ser His Val Pro Leu Tyr Pro Asn Ser Gln Pro Gln Val His
 85 90 95
 Leu Val Pro Gly Asn Pro Pro Ser Leu Val Ser Asn Val Asn Gly Gln
 100 105 110
 Pro Val Gln Lys Ala Leu Lys Glu Gly Lys Thr Leu Gly Ala Ile Gln
 115 120 125
 Ile Ile Ile Gly Leu Ala His Ile Gly Leu Gly Ser Ile Met Ala Thr
 130 135 140
 Val Leu Val Gly Glu Tyr Leu Ser Ile Ser Phe Tyr Gly Gly Phe Pro
 145 150 155 160
 Phe Trp Gly Gly Leu Trp Phe Ile Ile Ser Gly Ser Leu Ser Val Ala
 165 170 175
 Ala Glu Asn Gln Pro Tyr Ser Tyr Cys Leu Leu Ser Gly Ser Leu Gly
 180 185 190
 Leu Asn Ile Val Ser Ala Ile Cys Ser Ala Val Gly Val Ile Leu Phe
 195 200 205
 Ile Thr Asp Leu Ser Ile Pro His Pro Tyr Ala Tyr Pro Asp Tyr Tyr
 210 215 220
 Pro Tyr Ala Trp Gly Val Asn Pro Gly Met Ala Ile Ser Gly Val Leu
 225 230 235 240
 Leu Val Phe Cys Leu Leu Glu Phe Gly Ile Ala Cys Ala Ser Ser His
 245 250 255
 Phe Gly Cys Gln Leu Val Cys Cys Gln Ser Ser Asn Val Ser Val Ile
 260 265 270
 Tyr Pro Asn Ile Tyr Ala Ala Asn Pro Val Ile Thr Pro Glu Pro Val
 275 280 285
 Thr Ser Pro Pro Ser Tyr Ser Ser Glu Ile Gln Ala Asn Lys
 290 295 300

<210> 765

<211> 141

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (131)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (137)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 765

Lys Met Phe Arg Lys Gly Lys Lys Arg His Ser Ser Ser Ser Ser Gln
1 5 10 15

Ser Ser Glu Ile Ser Thr Lys Ser Lys Ser Val Asp Ser Ser Leu Gly
20 25 30

Gly Leu Ser Arg Ser Ser Thr Val Ala Ser Leu Asp Thr Asp Ser Thr
35 40 45

Lys Ser Ser Gly Gln Ser Asn Asn Asn Ser Asp Thr Cys Ala Glu Phe
50 55 60

Arg Ile Lys Tyr Val Gly Ala Ile Glu Lys Leu Lys Leu Ser Glu Gly
65 70 75 80

Lys Gly Leu Glu Gly Pro Leu Asp Leu Ile Asn Tyr Ile Asp Val Ala
85 90 95

Gln Gln Asp Gly Lys Leu Pro Phe Val Pro Pro Glu Glu Glu Phe Ile
100 105 110

Met Gly Val Ser Lys Tyr Gly Ile Lys Val Phe Asn Ile Arg Ser Ile
115 120 125

Cys Lys Xaa Tyr Asn Leu Leu Arg Xaa Leu Cys Phe Arg
130 135 140

<210> 766

<211> 55

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 766

Asn Leu Cys Asn Phe Leu Tyr Leu Leu Leu Phe His Gln Arg Asn Leu
 1 5 10 15

Lys Ser Phe Phe Xaa Xaa Xaa Lys Lys Lys Lys Lys Lys Lys Lys
 20 25 30

Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys
 35 40 45

Lys Lys Lys Gly Gly Arg Phe
 50 55

<210> 767

<211> 115

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 767

Thr Leu Asn Thr Tyr Leu Ser Phe Asn Val His Ile Asn Lys Ala Pro
 1 5 10 15

Ile Xaa Trp Ser Leu Glu Lys Lys Lys Ser Phe His Val Val Pro Arg
 20 25 30

Ser Arg Ser Arg Ser Ser Ser Gln Phe Glu Ser Arg Ser Arg Ser Ser
 35 40 45

Ser Arg Glu Arg Ser Arg Ser Arg Gly Ser Lys Ser Arg Ser Ser Ser
 50 55 60

Arg Ser Thr Gly Ala Leu Leu Pro His Glu Lys Asp Leu Ile Gln Val
 65 70 75 80

710

His His Leu Leu Leu Arg Gly Thr Glu Arg Glu Val Val Leu Asp Leu
85 90 95

Leu His Leu Val Ile Ala Lys Lys Asp Glu Gln Asp His Gly His Pro
100 105 110

Lys Ala Arg
115

<210> 768

<211> 303

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (257)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 768

Val Asn Glu Ile Met Ile Leu Glu Gly Gly Gly Val Met Asn Leu Asn
1 5 10 15

Pro Gly Asn Asn Leu Leu His Gln Pro Pro Ala Trp Thr Asp Ser Tyr
20 25 30

Ser Thr Cys Asn Val Ser Ser Gly Phe Phe Gly Gly Gln Trp His Glu
35 40 45

Ile His Pro Gln Tyr Trp Thr Lys Tyr Gln Val Trp Glu Trp Leu Gln
50 55 60

His Leu Leu Asp Thr Asn Gln Leu Asp Ala Asn Cys Ile Pro Phe Gln
65 70 75 80

Glu Phe Asp Ile Asn Gly Glu His Leu Cys Ser Met Ser Leu Gln Glu
85 90 95

Phe Thr Arg Ala Ala Gly Thr Ala Gly Gln Leu Leu Tyr Ser Asn Leu
100 105 110

Gln His Leu Lys Trp Asn Gly Gln Cys Ser Ser Asp Leu Phe Gln Ser
115 120 125

Thr His Asn Val Ile Val Lys Thr Glu Gln Thr Glu Pro Ser Ile Met
130 135 140

Asn Thr Trp Lys Asp Glu Asn Tyr Leu Tyr Asp Thr Asn Tyr Gly Ser

711

145 150 155 160
 Thr Val Asp Leu Leu Asp Ser Lys Thr Phe Cys Arg Ala Gln Ile Ser
 165 170 175
 Met Thr Thr Thr Ser His Leu Pro Val Glu Ser Pro Asp Met Lys Lys
 180 185 190
 Glu Gln Asp Pro Pro Ala Lys Cys His Thr Lys Lys His Asn Pro Arg
 195 200 205
 Gly Thr His Leu Trp Glu Phe Ile Arg Asp Ile Leu Leu Asn Pro Asp
 210 215 220
 Lys Asn Pro Gly Leu Ile Lys Trp Glu Asp Arg Ser Glu Gly Val Phe
 225 230 235 240
 Arg Phe Leu Lys Ser Glu Ala Val Ala Gln Leu Trp Gly Lys Lys Lys
 245 250 255
 Xaa Asn Ser Ser Met Thr Tyr Glu Lys Leu Ser Arg Ala Met Arg Tyr
 260 265 270
 Tyr Tyr Lys Arg Glu Ile Leu Glu Arg Val Asp Gly Arg Arg Leu Val
 275 280 285
 Tyr Lys Phe Gly Lys Asn Ala Arg Gly Trp Arg Glu Asn Glu Asn
 290 295 300

<210> 769

<211> 95

<212> PRT

<213> Homo sapiens

<400> 769

Asn Met Tyr Gly Thr Ser Cys Leu Ile Leu His Val Thr Ser Leu Leu
 1 5 10 15
 Tyr Ile Asp Glu Val Leu Val Thr Leu Ser Ser Asn Thr Leu Pro Leu
 20 25 30
 Leu Phe Arg Glu Cys Leu Arg Asp Phe Leu Tyr Trp Phe Tyr Tyr Ser
 35 40 45
 Asp Tyr Gly Leu Asp Leu Ser Ile Leu Leu Leu Pro Pro Gly Phe Leu
 50 55 60
 Ile Ile His Pro Ser Lys Leu Ile Phe Cys Glu Ala Phe Val Ser Gln
 65 70 75 80

Ile Lys Thr Leu Leu Glu Pro Lys Val Val Ala Asp Gly Tyr Leu
 85 90 95

<210> 770

<211> 247

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (131)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 770

Gly Ser Arg Ser Arg Ala Ala Ala Arg Glu Gln Leu Pro Lys Ser Val
 1 5 10 15

Pro Cys Gly Ala Gly Ala Gly Arg Gly Phe Ala Glu Ala Pro Arg His
 20 25 30

Ser Glu Glu Val Arg Glu Arg Arg Gln Thr Thr Gly Asp Pro Gly Pro
 35 40 45

Ala Ala Arg Ala Glu Pro Ser Val Pro Ala Cys Val Pro Ala Cys Pro
 50 55 60

Arg Gly Cys Val Phe Ala Gly Val Cys Cys Val His Arg Cys Phe Cys
 65 70 75 80

Gly Arg Arg His Val Arg Thr Gly Trp Gly Cys Pro Ser Glu Pro Met
 85 90 95

Arg His Lys Ala Cys Arg Arg Leu Phe Gly Pro Val Asp Ser Glu Gln
 100 105 110

Leu Ser Arg Asp Cys Asp Ala Leu Met Ala Gly Cys Ile Gln Glu Ala
 115 120 125

Arg Glu Xaa Trp Asn Phe Asp Phe Val Thr Glu Thr Pro Leu Glu Gly
 130 135 140

Asp Phe Ala Trp Glu Arg Val Arg Gly Leu Gly Leu Pro Lys Leu Tyr
 145 150 155 160

Leu Pro Thr Gly Pro Arg Arg Gly Arg Asp Glu Leu Gly Gly Gly Arg
 165 170 175

Arg Pro Gly Thr Ser Pro Ala Leu Leu Gln Gly Thr Ala Glu Glu Asp

713

180 185 190
 His Val Asp Leu Ser Leu Ser Cys Thr Leu Val Pro Arg Ser Gly Glu
 195 200 205
 Gln Ala Glu Gly Ser Pro Gly Gly Pro Gly Asp Ser Gln Gly Arg Lys
 210 215 220
 Arg Arg Gln Thr Ser Met Thr Asp Phe Tyr His Ser Lys Arg Arg Leu
 225 230 235 240
 Ile Phe Ser Lys Arg Lys Pro
 245

<210> 771
 <211> 81
 <212> PRT
 <213> Homo sapiens

<400> 771
 Cys Ile Cys Leu Ser Cys Ala Thr Gly Ala Ser Asn Gln His Ile His
 1 5 10 15
 Gln His Pro Ser Gly Gly Val His Gly Arg Val Pro Ser Leu Phe Leu
 20 25 30
 Leu His Phe Ser Phe Phe Ser Phe Leu Leu Lys Leu Leu Phe Asn Ser
 35 40 45
 Ala Lys Gly Ser Phe Phe Phe Ala Phe Leu Asn Leu Asn Phe Phe Asn
 50 55 60
 Leu His Phe Leu Val Leu Ile Phe Leu Tyr Ile Leu Leu Ala Met Ser
 65 70 75 80
 Phe

<210> 772
 <211> 281
 <212> PRT
 <213> Homo sapiens

<400> 772
 Ser Val Arg Ser Asn Ser Gly Ser Thr Thr Arg Pro Leu Ser Pro Pro
 1 5 10 15

Ile Pro Arg Thr Ser Asn Lys Val Pro Val Val Gln Pro Ser His Ala
 20 25 30

Val His Pro Leu Thr Pro Leu Ile Thr Tyr Ser Asp Glu His Phe Ser
 35 40 45

Pro Gly Ser His Pro Ser His Ile Pro Ser Asp Val Asn Ser Lys Gln
 50 55 60

Gly Met Ser Arg His Pro Pro Ala Pro Asp Ile Pro Thr Phe Tyr Pro
 65 70 75 80

Leu Ser Pro Gly Gly Val Gly Gln Ile Thr Pro Pro Leu Gly Trp Gln
 85 90 95

Gly Gln Pro Val Tyr Pro Ile Thr Gly Gly Phe Arg Gln Pro Tyr Pro
 100 105 110

Ser Ser Leu Ser Val Asp Thr Ser Met Ser Arg Phe Ser His His Met
 115 120 125

Ile Pro Gly Pro Pro Gly Pro His Thr Thr Gly Ile Pro His Pro Ala
 130 135 140

Ile Val Thr Pro Gln Val Lys Gln Glu His Pro His Thr Asp Ser Asp
 145 150 155 160

Leu Met His Val Lys Pro Gln His Glu Gln Arg Lys Glu Gln Glu Pro
 165 170 175

Lys Arg Pro His Ile Lys Lys Pro Leu Asn Ala Phe Met Leu Tyr Met
 180 185 190

Lys Glu Met Arg Ala Asn Val Val Ala Glu Cys Thr Leu Lys Glu Ser
 195 200 205

Ala Ala Ile Asn Gln Ile Leu Gly Arg Arg Trp His Ala Leu Ser Arg
 210 215 220

Glu Glu Gln Ala Lys Tyr Tyr Glu Leu Ala Arg Lys Glu Arg Gln Leu
 225 230 235 240

His Met Gln Leu Tyr Pro Gly Trp Ser Ala Arg Asp Asn Tyr Gly Lys
 245 250 255

Lys Lys Lys Arg Lys Arg Glu Lys Leu Gln Glu Ser Ala Ser Gly Thr
 260 265 270

Gly Pro Arg Met Thr Ala Ala Tyr Ile
 275 280

715

<210> 773

<211> 195

<212> PRT

<213> Homo sapiens

<400> 773

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Lys Ile Pro Phe Leu Gly Val Cys Leu Gly Met Gln Leu Ala Val Ile
  1             5             10             15

Glu Phe Ala Arg Asn Cys Leu Asn Leu Lys Asp Ala Asp Ser Thr Glu
      20             25             30

Phe Arg Pro Asn Ala Pro Val Pro Leu Val Ile Asp Met Pro Glu His
      35             40             45

Asn Pro Gly Asn Leu Gly Gly Thr Met Arg Leu Gly Ile Arg Arg Thr
      50             55             60

Val Phe Lys Thr Glu Asn Ser Ile Leu Arg Lys Leu Tyr Gly Asp Val
      65             70             75             80

Pro Phe Ile Glu Glu Arg His Arg His Arg Phe Glu Val Asn Pro Asn
      85             90             95

Leu Ile Lys Gln Phe Glu Gln Asn Asp Leu Ser Phe Val Gly Gln Asp
      100            105            110

Val Asp Gly Asp Arg Met Glu Ile Ile Glu Leu Ala Asn His Pro Tyr
      115            120            125

Phe Val Gly Val Gln Phe His Pro Glu Phe Ser Ser Arg Pro Met Lys
      130            135            140

Pro Ser Pro Pro Tyr Leu Gly Leu Leu Leu Ala Ala Thr Gly Asn Leu
      145            150            155            160

Asn Ala Tyr Leu Gln Gln Gly Cys Lys Leu Ser Ser Ser Asp Arg Tyr
      165            170            175

Ser Asp Ala Ser Asp Asp Ser Phe Ser Glu Pro Arg Ile Ala Glu Leu
      180            185            190

Glu Ile Ser
      195

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<210> 774

<211> 90

716

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (77)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 774

Glu Lys Gly Pro Ser Val Ser Val Lys Pro Lys Ala Gly Phe Cys Leu
1 5 10 15

Ala Gly Leu Arg Ser Gly Thr His Ser Trp Thr Asn His Asp Ile Pro
20 25 30

Asp Gly Val Thr Trp Pro Thr Cys Arg Lys Gly Val Gly Ser Val Pro
35 40 45

Glu Asp Arg Arg Gly Gly Val Gln Ile Gly Gln Glu Val Met Ala Ser
50 55 60

Gln Ala Pro Asn Cys Cys Asn Pro Gly Gly Gln Pro Xaa Val Glu Thr
65 70 75 80

Thr Gly Phe Arg Ala Val Pro Leu Pro Ser.
85 90

<210> 775

<211> 205

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (110)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (131)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (138)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (141)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 775

Ser	Cys	Arg	Ser	Thr	Leu	Val	Asp	Pro	Lys	Lys	Xaa	Gly	Thr	Arg	Glu
1				5					10					15	

Trp	Gln	Gln	Val	Asp	Arg	Gln	Leu	Pro	Ser	Leu	Ala	Cys	Lys	Tyr	Pro
			20					25					30		

Val	Ser	Ser	Arg	Glu	Ala	Thr	Gln	Ile	Leu	Ser	Val	Pro	Lys	Val	Asp
		35					40					45			

Asp	Glu	Ile	Leu	Gly	Phe	Ile	Ser	Glu	Ala	Thr	Pro	Leu	Gly	Gly	Ile
	50					55					60				

Gln	Ala	Ala	Ser	Thr	Glu	Ser	Cys	Asn	Gln	Gln	Leu	Asp	Leu	Ala	Leu
65					70					75					80

Cys	Arg	Ala	Tyr	Glu	Ala	Ala	Ala	Ser	Ala	Leu	Gln	Ile	Ala	Thr	His
				85					90					95	

Thr	Ala	Phe	Val	Ala	Lys	Ala	Met	Gln	Ala	Asp	Ile	Ser	Xaa	Ala	Ala
			100					105					110		

Gln	Ile	Leu	Ser	Ser	Asp	Pro	Ser	Arg	Thr	His	Gln	Ala	Leu	Gly	Ile
	115						120					125			

Leu	Ser	Xaa	Thr	Tyr	Asp	Ala	Ala	Ser	Xaa	Ile	Cys	Xaa	Ala	Ala	Phe
	130					135					140				

Asp	Glu	Val	Lys	Met	Ala	Ala	His	Thr	Met	Gly	Asn	Ala	Thr	Val	Gly
145					150					155					160

Arg	Arg	Tyr	Leu	Trp	Leu	Lys	Asp	Cys	Lys	Ile	Asn	Leu	Ala	Ser	Lys
			165						170					175	

Asn	Lys	Leu	Ala	Ser	Thr	Pro	Phe	Lys	Gly	Gly	Thr	Leu	Phe	Gly	Gly
		180						185					190		

Glu	Val	Cys	Lys	Val	Ile	Lys	Lys	Arg	Gly	Asn	Lys	His
	195						200					205

<210> 776

718

<211> 99
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (7)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 776

Phe Ser Thr Arg Pro Ile Xaa Leu Thr Leu Met Leu Met Ala Val Leu
 1 5 10 15

Asn Cys Leu Phe Asp Ser Leu Ser Gln Met Leu Arg Lys Asn Val Glu
 20 25 30

Lys Arg Ala Leu Leu Glu Asn Met Glu Gly Leu Phe Leu Ala Val Asp
 35 40 45

Glu Ile Val Asp Gly Gly Val Ile Leu Glu Ser Asp Pro Gln Gln Val
 50 55 60

Val His Arg Val Ala Leu Arg Gly Glu Asp Val Pro Leu Thr Glu Gln
 65 70 75 80

Thr Val Ser Gln Val Leu Gln Ser Ala Lys Glu Gln Ile Lys Trp Ser
 85 90 95

Leu Leu Arg

<210> 777
 <211> 211
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (10)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (137)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 777

Leu Gly Asp Thr Ile Glu Gly Thr Pro Xaa Gly Thr Gly Ser Gly Ile
 1 5 10 15

Pro Gly Ser Thr His Ala Ser Arg Glu Glu Lys Ser Lys Gln Phe Leu
 20 25 30
 Asp Leu Met Glu Thr Ile Asp Lys Gln Arg Glu Glu Met Ala Lys Ser
 35 40 45
 Ser Arg Ala Ser Ala Ala Arg Val Gly Lys Leu Gln Glu Ala Leu Asn
 50 55 60
 Glu Arg His Ser Ile Ile Asn Ala Leu Lys Ala Lys Leu Gln Met Thr
 65 70 75 80
 Glu Ala Ala Leu Ala Leu Ser Glu Gln Lys Ala Gln Asp Leu Gly Glu
 85 90 95
 Leu Leu Ala Thr Ala Glu Gln Glu Gln Leu Ser Leu Ser Gln Arg Gln
 100 105 110
 Ala Lys Glu Leu Lys Leu Glu Gln Gln Glu Ala Ala Glu Arg Glu Ser
 115 120 125
 Lys Leu Leu Arg Asp Leu Ser Ala Xaa Asn Glu Lys Asn Leu Leu Leu
 130 135 140
 Gln Asn Gln Val Asp Glu Leu Glu Arg Lys Phe Arg Cys Gln Gln Glu
 145 150 155 160
 Gln Leu Phe Gln Thr Arg Gln Glu Met Thr Ser Met Ser Ala Glu Leu
 165 170 175
 Lys Met Arg Ala Ile Gln Ala Arg Ser Ala Trp Thr Trp Arg Arg Glu
 180 185 190
 Asp Ala Asp Arg Ala Trp Arg Thr Pro Lys Ala Cys Ala Ser Arg Arg
 195 200 205
 Trp Ser Ile
 210

<210> 778

<211> 181

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (145)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (155)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (163)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (169)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 778

Gly	Arg	Gly	Gly	Ala	Gly	Arg	Gly	Val	Pro	Leu	Val	Gly	Ser	Gly	Pro
1				5					10					15	

Arg	Ile	Leu	Ser	Ala	Gly	Ser	Arg	Arg	Pro	Arg	Ser	Cys	Ala	Pro	Pro
			20					25					30		

Pro	Gly	Pro	Gly	Leu	Gly	Arg	Val	Pro	Arg	Val	Leu	Gly	Ser	Phe	Cys
	35						40					45			

Pro	Pro	Val	Leu	Gln	Arg	Ser	Arg	Phe	Gln	Pro	Gly	Cys	Pro	Arg	Met
	50					55					60				

Gly	Glu	Phe	Asn	Glu	Lys	Lys	Thr	Thr	Cys	Gly	Thr	Val	Cys	Leu	Lys
65					70					75					80

Tyr	Leu	Leu	Phe	Thr	Tyr	Asn	Cys	Cys	Phe	Trp	Leu	Ala	Gly	Leu	Ala
				85					90					95	

Val	Met	Ala	Val	Gly	Ile	Trp	Thr	Leu	Ala	Leu	Lys	Ser	Asp	Tyr	Ile
		100						105					110		

Ser	Leu	Leu	Ala	Ser	Gly	Thr	Tyr	Leu	Ala	Thr	Ala	Tyr	Ile	Leu	Val
		115					120					125			

Val	Ala	Gly	Thr	Val	Val	Met	Val	Thr	Gly	Val	Leu	Gly	Cys	Cys	Ala
	130					135					140				

Xaa	Phe	Lys	Glu	Arg	Arg	Asn	Leu	Leu	Arg	Xaa	Tyr	Phe	Ile	Leu	Leu
145						150				155				160	

Leu	Ile	Xaa	Phe	Leu	Ala	Gly	Asp	Xaa	Arg	Trp	Tyr	Pro	Arg	Leu	Arg
				165					170					175	

Leu	Ile	Thr	Ser	Ser
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721

180

<210> 779

<211> 132

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 779

Ser Arg Ala Lys Arg Xaa Pro Lys Ser Lys Glu Leu Val Ser Ser Ser
 1 5 10 15

Ser Ser Gly Ser Asp Ser Asp Ser Glu Val Asp Lys Lys Leu Lys Arg
 20 25 30

Lys Lys Gln Val Ala Pro Glu Lys Pro Val Lys Lys Gln Lys Thr Gly
 35 40 45

Glu Thr Ser Arg Ala Leu Ser Ser Ser Lys Gln Ser Ser Ser Ser Arg
 50 55 60

Asp Asp Asn Met Phe Gln Ile Gly Lys Met Arg Tyr Val Ser Val Arg
 65 70 75 80

Asp Phe Lys Gly Lys Val Leu Ile Asp Ile Arg Glu Tyr Trp Met Asp
 85 90 95

Pro Glu Gly Glu Met Lys Pro Gly Arg Lys Gly Ile Ser Leu Asn Pro
 100 105 110

Glu Gln Trp Ser Gln Leu Lys Glu Gln Ile Ser Asp Ile Asp Asp Ala
 115 120 125

Val Arg Lys Leu
 130

<210> 780

<211> 370

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (56)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 780

Asp	Asn	Lys	Lys	Tyr	Glu	Ile	Ile	Lys	Arg	Asp	Ile	Leu	Arg	Gly	Lys
1				5				10						15	

Ser	Val	Pro	His	Tyr	Ala	Ala	Ile	Glu	Pro	Asp	Gly	Asn	Gly	Leu	Met
			20					25					30		

Ile	Val	Ser	Tyr	Lys	Ser	Xaa	Thr	Phe	Val	Gln	Ala	Gly	Gln	Asp	Leu
		35					40					45			

Glu	Glu	Asn	Met	Asp	Glu	Asp	Xaa	Ser	Glu	Lys	Ile	Lys	Glu	Pro	Leu
	50					55					60				

Tyr	Tyr	Trp	Gln	Gln	Thr	Glu	Asp	Asp	Leu	Thr	Val	Thr	Ile	Arg	Leu
65					70				75						80

Pro	Glu	Asp	Ser	Thr	Lys	Glu	Asp	Ile	Gln	Ile	Gln	Phe	Leu	Pro	Asp
				85				90						95	

His	Ile	Asn	Ile	Val	Leu	Lys	Asp	His	Gln	Phe	Leu	Glu	Gly	Lys	Leu
		100					105						110		

Tyr	Ser	Ser	Ile	Asp	His	Glu	Ser	Ser	Thr	Trp	Ile	Ile	Lys	Glu	Ser
		115					120					125			

Asn	Ser	Leu	Glu	Ile	Ser	Leu	Ile	Lys	Lys	Asn	Glu	Gly	Leu	Thr	Trp
	130					135					140				

Pro	Glu	Leu	Val	Ile	Gly	Asp	Lys	Gln	Gly	Glu	Leu	Ile	Arg	Asp	Ser
145					150					155					160

Ala	Gln	Cys	Ala	Ala	Ile	Ala	Glu	Arg	Leu	Met	His	Leu	Thr	Ser	Glu
			165						170					175	

Glu	Leu	Asn	Pro	Asn	Pro	Asp	Lys	Glu	Lys	Pro	Pro	Cys	Asn	Ala	Gln
		180						185					190		

Glu	Leu	Glu	Glu	Cys	Asp	Ile	Phe	Phe	Glu	Glu	Ser	Ser	Ser	Leu	Cys
		195					200					205			

Arg	Phe	Asp	Gly	Asn	Thr	Leu	Lys	Thr	Thr	His	Val	Val	Asn	Leu	Gly
		210					215					220			

Ser Asn Gln Tyr Leu Phe Ser Val Ile Val Asp Pro Lys Glu Met Pro
 225 230 235 240

Cys Phe Cys Leu Arg His Asp Val Asp Ala Leu Leu Trp Gln Pro His
 245 250 255

Ser Ser Lys Gln Asp Asp Met Trp Glu His Ile Ala Thr Phe Asn Ala
 260 265 270

Leu Gly Tyr Val Gln Ala Ser Lys Arg Asp Lys Lys Phe Phe Ala Cys
 275 280 285

Ala Pro Asn Tyr Ser Tyr Ala Ala Leu Cys Glu Cys Leu Arg Arg Val
 290 295 300

Phe Ile Tyr Arg Gln Pro Ala Pro Met Ser Thr Val Leu Tyr Asn Arg
 305 310 315 320

Lys Glu Gly Arg Gln Val Gly Gln Val Ala Lys Gln Gln Val Ala Ser
 325 330 335

Leu Glu Thr Asn Asp Pro Ile Leu Gly Phe Gln Ala Thr Asn Glu Arg
 340 345 350

Leu Phe Val Leu Thr Thr Lys Asn Leu Phe Leu Ile Lys Val Asn Thr
 355 360 365

Glu Asn
 370

<210> 781

<211> 259

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (215)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (227)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (228)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (247)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (251)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (257)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (259)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 781

Gly	Gly	Asp	Pro	Gly	Gly	Gly	Gly	Arg	Ser	Pro	Ala	Leu	Arg	Gln	Lys
1				5				10						15	

Val	Pro	Arg	Leu	His	Thr	Arg	Ala	Arg	Ser	Gln	Arg	Ala	Ala	Gly	Ala
			20					25					30		

Asp	Gly	Arg	Arg	Gly	Gly	Arg	Arg	Gln	Gly	Arg	Ser	Val	Tyr	Ser	Cys
		35				40						45			

Ser	Gly	Ala	Val	Ser	Trp	Arg	Arg	Leu	Gly	Arg	Leu	Leu	Ser	Pro	Gly
		50				55					60				

Ser	Ala	Ala	Ala	Ala	Lys	Ala	Ala	Ala	Pro	Ala	Leu	Ser	Leu	Ser	Leu
65					70					75					80

Ser	Arg	Leu	Trp	Leu	Gln	Val	Lys	Gly	Lys	Gln	Ala	Arg	Met	Asp	Ile
			85						90					95	

Tyr	Asp	Thr	Gln	Thr	Leu	Gly	Val	Val	Val	Phe	Gly	Gly	Phe	Met	Val
			100					105					110		

Val	Ser	Ala	Ile	Gly	Ile	Phe	Leu	Val	Ser	Thr	Phe	Ser	Met	Lys	Glu
		115					120					125			

Thr	Ser	Tyr	Glu	Glu	Ala	Leu	Ala	Asn	Gln	Arg	Lys	Glu	Met	Ala	Lys
		130				135					140				

Thr	His	His	Gln	Lys	Val	Glu	Lys	Lys	Lys	Lys	Glu	Lys	Thr	Val	Glu
145					150					155					160

725

Lys Lys Gly Lys Thr Lys Lys Lys Glu Glu Lys Pro Asn Gly Lys Ile
165 170 175

Pro Asp His Asp Pro Ala Pro Asn Val Thr Val Leu Leu Arg Glu Pro
180 185 190

Val Arg Ala Pro Ala Val Ala Val Ala Pro Thr Pro Val Gln Pro Pro
195 200 205

Ile Ile Val Ala Pro Val Xaa Thr Val Pro Ala Met Pro Gln Glu Lys
210 215 220

Leu Ala Xaa Xaa Pro Lys Asp Lys Lys Lys Lys Glu Lys Lys Val Ala
225 230 235 240

Lys Val Gly Pro Val Ser Xaa Cys Ser Asp Xaa Ile Gln Val Ser Ile
245 250 255

Xaa Lys Xaa

<210> 782

<211> 177

<212> PRT

<213> Homo sapiens

<400> 782

Gly Ser Pro Val Glu Pro Arg Gly Ser Ala Pro Glu Ile Met Leu Asn
1 5 10 15

Ser Lys Gly Tyr Thr Lys Ser Ile Asp Ile Trp Ser Val Gly Cys Ile
20 25 30

Leu Ala Glu Met Leu Ser Asn Arg Pro Ile Phe Pro Gly Lys His Tyr
35 40 45

Leu Asp Gln Leu Asn His Ile Leu Gly Ile Leu Gly Ser Pro Ser Gln
50 55 60

Glu Asp Leu Asn Cys Ile Ile Asn Met Lys Ala Arg Asn Tyr Leu Gln
65 70 75 80

Ser Leu Pro Ser Lys Thr Lys Val Ala Trp Ala Lys Leu Phe Pro Lys
85 90 95

Ser Asp Ser Lys Ala Leu Asp Leu Leu Asp Arg Met Leu Thr Phe Asn
100 105 110

726

Pro Asn Lys Arg Ile Thr Val Glu Glu Ala Leu Ala His Pro Tyr Leu
 115 120 125

Glu Gln Tyr Tyr Asp Pro Thr Asp Glu Pro Val Ala Glu Glu Pro Phe
 130 135 140

Thr Phe Ala Met Glu Leu Asp Asp Leu Pro Lys Glu Arg Leu Lys Glu
 145 150 155 160

Leu Ile Phe Gln Glu Thr Ala Arg Phe Gln Pro Gly Val Leu Glu Ala
 165 170 175

Pro

<210> 783

<211> 154

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (153)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 783

His Leu Tyr Ala Phe Phe Ile Gln Trp Ser Pro Glu Ile Tyr Ala Glu
 1 5 10 15

Asp Thr Gly Glu Tyr Thr Arg Glu Pro Gly Phe Ile Val Val Lys Lys
 20 25 30

Ile Glu Glu Ser Glu Thr Ile Glu Asp Ser Ser Asn Gln Ala Ala Ala
 35 40 45

Arg Glu Trp Glu Ile Thr Thr Arg Glu Asp Ile Asn Ser Lys Gln Val
 50 55 60

Ala Thr Val Lys Ala Asp Leu Glu Ser Glu Ser Phe Arg Pro Asn Leu
 65 70 75 80

Ser Asp Pro Ser Glu Leu Leu Leu Pro Asp Gln Ile Glu Lys Leu Thr
 85 90 95

Lys His Leu Pro Pro Arg Thr Ile Gly Tyr Pro Trp Thr Leu Val Tyr
 100 105 110

Gly Thr Gly Lys His Gly Thr Ser Leu Lys Thr Leu Tyr Arg Thr Met
 115 120 125

727

Thr Gly Leu Asp Thr Pro Val Leu Met Val Ile Lys Asp Ser Asp Gly
 130 135 140

Gln Val Phe Gly Ala Leu His Leu Xaa His
 145 150

<210> 784

<211> 164

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (118)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (130)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 784

Phe Leu Tyr Ser Phe Ala Arg Gln Thr Met Ala Pro Phe Gly Arg Asn
 1 5 10 15

Leu Leu Lys Thr Arg His Lys Asn Arg Ser Pro Thr Lys Asp Met Asp
 20 25 30

Ser Glu Glu Lys Glu Ile Val Val Trp Val Cys Gln Glu Glu Lys Xaa
 35 40 45

Val Cys Gly Leu Thr Lys Arg Thr Thr Ser Ala Asp Val Ile Gln Ala
 50 55 60

Leu Leu Glu Glu His Glu Ala Thr Phe Gly Glu Lys Arg Phe Leu Leu
 65 70 75 80

Gly Lys Pro Ser Asp Tyr Cys Ile Ile Glu Lys Trp Arg Gly Ser Glu
 85 90 95

Arg Val Leu Pro Pro Leu Thr Arg Ile Leu Lys Leu Trp Lys Ala Trp
 100 105 110

728

Gly Asp Glu Gln Pro Xaa Met Gln Phe Val Leu Val Lys Ala Asp Ala
115 120 125

Phe Xaa Pro Val Pro Leu Trp Arg Thr Ala Glu Ala Lys Leu Val Gln
130 135 140

Asn Thr Glu Lys Leu Trp Glu Leu Ser Pro Ala Asn Leu His Glu Asp
145 150 155 160

Phe Thr Thr Arg

<210> 785

<211> 72

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (68)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (72)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 785

Gly Tyr Arg Leu Ser Cys Glu Val Ile Ser Ile Trp Lys Gln Val Trp
1 5 10 15

Gly Ala Gly Gly Ala Leu Val Arg Val Leu Gly Gly Ser Gly Val Ser
20 25 30

Val Gly Gly Ser Thr Gly Tyr Thr Gly Ala Arg Lys Glu His Gly Val
35 40 45

Thr Cys Ser Val Gly Val Arg Leu Gly Val Gln Val Glu Glu Pro Gly
50 55 60

Val Leu Gly Xaa Gln Ser Val Xaa
65 70

<210> 786

<211> 332

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (298)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (303)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (323)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 786

Gly	Lys	Gln	Arg	Glu	Gly	Arg	Arg	Glu	Gly	Ile	Arg	Gln	Leu	Gln	Phe
1				5					10					15	

Ser	Ser	Leu	Gly	Ala	Pro	Thr	Pro	Arg	Cys	Pro	Ala	Ser	Cys	Pro	Gln
			20					25					30		

Pro	Gly	His	Ala	Xaa	Pro	Thr	Leu	Pro	Ala	Pro	Gln	Asn	Pro	Arg	His
		35					40					45			

Pro	Pro	Glu	Pro	Pro	Gln	Ser	Trp	Pro	Arg	Arg	Met	Gly	Ala	Leu	Arg
	50					55					60				

Pro	Thr	Leu	Leu	Pro	Pro	Ser	Leu	Pro	Leu	Leu	Leu	Leu	Leu	Met	Leu
65					70					75					80

Gly	Met	Gly	Cys	Trp	Ala	Arg	Glu	Val	Leu	Val	Pro	Glu	Gly	Pro	Leu
			85						90					95	

Tyr	Arg	Val	Ala	Gly	Thr	Ala	Val	Ser	Ile	Ser	Cys	Asn	Val	Thr	Gly
		100						105					110		

Tyr	Glu	Gly	Pro	Ala	Gln	Gln	Asn	Phe	Glu	Trp	Phe	Leu	Tyr	Arg	Pro
	115						120					125			

Glu	Ala	Pro	Asp	Thr	Ala	Leu	Gly	Ile	Val	Ser	Thr	Lys	Asp	Thr	Gln
	130					135						140			

Phe	Ser	Tyr	Ala	Val	Phe	Lys	Ser	Arg	Val	Val	Ala	Gly	Glu	Val	Gln
145						150					155				160

730

Val Gln Arg Leu Gln Gly Asp Ala Val Val Leu Lys Ile Ala Arg Leu
 165 170 175

Gln Ala Gln Asp Ala Gly Ile Tyr Glu Cys His Thr Pro Ser Thr Asp
 180 185 190

Thr Arg Tyr Leu Gly Ser Tyr Ser Gly Lys Val Glu Leu Arg Val Leu
 195 200 205

Pro Asp Val Leu Gln Val Ser Ala Ala Pro Pro Gly Pro Arg Gly Arg
 210 215 220

Gln Ala Pro Thr Ser Pro Pro Arg Met Thr Val His Glu Gly Gln Glu
 225 230 235 240

Leu Ala Leu Gly Cys Leu Ala Arg Thr Ser Thr Gln Lys His Thr His
 245 250 255

Leu Ala Val Ser Phe Gly Arg Ser Val Pro Glu Ala Pro Val Gly Arg
 260 265 270

Ser Thr Leu Gln Glu Val Val Gly Ile Arg Ser Asp Leu Ala Val Glu
 275 280 285

Ala Gly Ala Pro Tyr Ala Glu Arg Leu Xaa Ala Gly Glu Leu Xaa Leu
 290 295 300

Gly Lys Glu Gly Thr Asp Arg Tyr Arg Met Val Val Gly Gly Ala Gln
 305 310 315 320

Ala Gly Xaa Arg Arg His Leu Pro Leu His Cys Arg
 325 330

<210> 787

<211> 576

<212> PRT

<213> Homo sapiens

<400> 787

Glu Lys Glu Thr Ala Gln Leu Arg Glu Gln Val Gly Arg Met Glu Arg
 1 5 10 15

Glu Leu Asn His Glu Lys Glu Arg Cys Asp Gln Leu Gln Ala Glu Gln
 20 25 30

Lys Gly Leu Thr Glu Val Thr Gln Ser Leu Lys Met Glu Asn Glu Glu
 35 40 45

731

Phe Lys Lys Arg Phe Ser Asp Ala Thr Ser Lys Ala His Gln Leu Glu
 50 55 60

Glu Asp Ile Val Ser Val Thr His Lys Ala Ile Glu Lys Glu Thr Glu
 65 70 75 80

Leu Asp Ser Leu Lys Asp Lys Leu Lys Lys Ala Gln His Glu Arg Glu
 85 90 95

Gln Leu Glu Cys Gln Leu Lys Thr Glu Lys Asp Glu Lys Glu Leu Tyr
 100 105 110

Lys Val His Leu Lys Asn Thr Glu Ile Glu Asn Thr Lys Leu Met Ser
 115 120 125

Glu Val Gln Thr Leu Lys Asn Leu Asp Gly Asn Lys Glu Ser Val Ile
 130 135 140

Thr His Phe Lys Glu Glu Ile Gly Arg Leu Gln Leu Cys Leu Ala Glu
 145 150 155 160

Lys Glu Asn Leu Gln Arg Thr Phe Leu Leu Thr Thr Ser Ser Lys Glu
 165 170 175

Asp Thr Cys Phe Leu Lys Glu Gln Leu Arg Lys Ala Glu Glu Gln Val
 180 185 190

Gln Ala Thr Arg Gln Glu Val Val Phe Leu Ala Lys Glu Leu Ser Asp
 195 200 205

Ala Val Asn Val Arg Asp Arg Thr Met Ala Asp Leu His Thr Ala Arg
 210 215 220

Leu Glu Asn Glu Lys Val Lys Lys Gln Leu Ala Asp Ala Val Ala Glu
 225 230 235 240

Leu Lys Leu Asn Ala Met Lys Lys Asp Gln Asp Lys Thr Asp Thr Leu
 245 250 255

Glu His Glu Leu Arg Arg Glu Val Glu Asp Leu Lys Leu Arg Leu Gln
 260 265 270

Met Ala Ala Asp His Tyr Lys Glu Lys Phe Lys Glu Cys Gln Arg Leu
 275 280 285

Gln Lys Gln Ile Asn Lys Leu Ser Asp Gln Ser Ala Asn Asn Asn Asn
 290 295 300

Val Phe Thr Lys Lys Thr Gly Asn Gln Gln Lys Val Asn Asp Ala Ser
 305 310 315 320

Val Asn Thr Asp Pro Ala Thr Ser Ala Ser Thr Val Asp Val Lys Pro
 325 330 335
 Ser Pro Ser Ala Ala Glu Ala Asp Phe Asp Ile Val Thr Lys Gly Gln
 340 345 350
 Val Cys Glu Met Thr Lys Glu Ile Ala Asp Lys Thr Glu Lys Tyr Asn
 355 360 365
 Lys Cys Lys Gln Leu Leu Gln Asp Glu Lys Ala Lys Cys Asn Lys Tyr
 370 375 380
 Ala Asp Glu Leu Ala Lys Met Glu Leu Lys Trp Lys Glu Gln Val Lys
 385 390 395 400
 Ile Ala Glu Asn Val Lys Leu Glu Leu Ala Glu Val Gln Asp Asn Tyr
 405 410 415
 Lys Glu Leu Lys Arg Ser Leu Glu Asn Pro Ala Glu Arg Lys Met Glu
 420 425 430
 Asp Gly Ala Asp Gly Ala Phe Tyr Pro Asp Glu Ile Gln Arg Pro Pro
 435 440 445
 Val Arg Val Pro Ser Trp Gly Leu Glu Asp Asn Val Val Cys Ser Gln
 450 455 460
 Pro Ala Arg Asn Phe Ser Arg Pro Asp Gly Leu Glu Asp Ser Glu Asp
 465 470 475 480
 Ser Lys Glu Asp Glu Asn Val Pro Thr Ala Pro Asp Pro Pro Ser Gln
 485 490 495
 His Leu Arg Gly His Gly Thr Gly Phe Cys Phe Asp Ser Ser Phe Asp
 500 505 510
 Val His Lys Lys Cys Pro Leu Cys Glu Leu Met Phe Pro Pro Asn Tyr
 515 520 525
 Asp Gln Ser Lys Phe Glu Glu His Val Glu Ser His Trp Lys Val Cys
 530 535 540
 Pro Met Cys Ser Glu Gln Phe Pro Pro Asp Tyr Asp Gln Gln Val Phe
 545 550 555 560
 Glu Arg His Val Gln Thr His Phe Asp Gln Asn Val Leu Asn Phe Asp
 565 570 575

<210> 788
 <211> 311
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (135)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (175)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 788
 Ala Ile Val Pro Ser Trp Asp Leu Asp Lys Asp Thr Ile Ser Leu Leu
 1 5 10 15

 Ser Pro Val Leu Cys Ile Phe Pro Ser Pro Ser Ser Gln Thr Ser Leu
 20 25 30

 Leu Tyr Val Phe Ser Leu Ala Gly Arg Met Thr Gln Asn Thr Val Ile
 35 40 45

 Val Asn Gly Val Ala Met Ala Ser Arg Pro Ser Gln Pro Thr His Val
 50 55 60

 Asn Val His Ile His Gln Glu Ser Ala Leu Thr Gln Leu Leu Lys Ala
 65 70 75 80

 Gly Gly Ser Leu Lys Lys Phe Leu Phe His Pro Gly Asp Thr Val Pro
 85 90 95

 Ser Thr Ala Arg Ile Gly Tyr Glu Gln Leu Ala Leu Gly Val Thr Gln
 100 105 110

 Ile Leu Leu Gly Val Val Ser Cys Val Leu Gly Val Cys Leu Ser Leu
 115 120 125

 Gly Pro Trp Thr Val Leu Xaa Ala Ser Gly Cys Ala Phe Trp Ala Gly
 130 135 140

 Ser Val Val Ile Ala Ala Gly Ala Gly Ala Ile Val His Glu Lys His
 145 150 155 160

 Pro Gly Lys Leu Ala Gly Tyr Ile Ser Ser Leu Leu Thr Leu Xaa Gly
 165 170 175

Phe Ala Thr Ala Met Ala Ala Val Val Leu Cys Val Asn Ser Phe Ile
180 185 190

Trp Gln Thr Glu Pro Phe Leu Tyr Ile Asp Thr Val Cys Asp Arg Ser
195 200 205

Asp Pro Val Phe Pro Thr Thr Gly Tyr Arg Trp Met Arg Arg Ser Gln
210 215 220

Glu Asn Gln Trp Gln Lys Glu Glu Cys Arg Ala Tyr Met Gln Met Leu
225 230 235 240

Arg Lys Leu Phe Thr Ala Ile Arg Ala Leu Phe Leu Ala Val Cys Val
245 250 255

Leu Lys Val Ile Val Ser Leu Val Ser Leu Gly Val Gly Leu Arg Asn
260 265 270

Leu Cys Gly Gln Ser Ser Gln Pro Leu Asn Glu Glu Gly Ser Glu Lys
275 280 285

Arg Leu Leu Gly Glu Asn Ser Val Pro Pro Ser Pro Ser Arg Glu Gln
290 295 300

Thr Ser Thr Ala Ile Val Leu
305 310

<210> 789

<211> 76

<212> PRT

<213> Homo sapiens

<400> 789

His Ser Lys Ser Phe Val Leu Phe Lys Ile Cys Phe Gly Asn Tyr His
1 5 10 15

Ile Phe Phe Ser Tyr Leu Pro Leu Asn Gly His Ser Val Tyr Cys Trp
20 25 30

Asn Val Pro Ser Lys Arg Cys Ser Phe Arg Ser Thr Val Ile Ala Pro
35 40 45

Gly Ser Met Arg Tyr Cys Leu Tyr Tyr Glu Val Gly Val Leu Ser Thr
50 55 60

Glu Ile Ile Leu Leu Asn Lys Tyr Val Cys Ser Val
65 70 75

735

<210> 790
 <211> 106
 <212> PRT
 <213> Homo sapiens

<400> 790
 Ala Ser Ser Ala Cys Leu Ala Ala Pro Ala Leu Ser Arg Leu Pro Gly
 1 5 10 15
 Leu Gly Gly Ala Gly Ala Arg Ser Arg Ser Cys Leu Gly Leu Arg Phe
 20 25 30
 Gln Ala Trp Gly Ser Leu Pro Ala Ala Arg Ser Arg Ala Val Leu Gly
 35 40 45
 Thr Leu Arg Ser Thr Glu Pro Ser Leu Thr Gln Glu Leu Ser Ala Asp
 50 55 60
 Ser Pro Pro Ser Gly Ser Glu Ala Thr Trp Met Gln Ser Ala Lys Ser
 65 70 75 80
 Pro Trp Lys Ser Cys Phe Pro Ser Thr Ser Trp Ile Ser Gly Leu Leu
 85 90 95
 Ser Ser Ser Ser Trp Pro Pro Leu Ser Ser
 100 105

<210> 791
 <211> 121
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (12)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 791
 Ser Glu Lys Ser Thr Glu His Pro Glu Lys Thr Xaa Ala Thr Thr Glu
 1 5 10 15
 Lys Thr Thr Arg Thr Pro Glu Lys Pro Thr Leu Tyr Ser Glu Lys Thr
 20 25 30
 Ile Cys Thr Lys Gly Lys Asn Thr Pro Val Pro Glu Lys Pro Thr Glu
 35 40 45
 Asn Leu Gly Asn Thr Thr Leu Thr Thr Glu Thr Ile Lys Ala Pro Val

736

50 55 60
 Lys Ser Thr Glu Asn Pro Glu Lys Thr Ala Ala Val Thr Lys Thr Ile
 65 70 75 80
 Lys Pro Ser Val Lys Val Thr Gly Asp Lys Ser Leu Thr Thr Thr Ser
 85 90 95
 Ser His Leu Asn Lys Thr Glu Val Thr His Gln Val Pro Thr Gly Ser
 100 105 110
 Phe Thr Leu Ile Thr Ser Arg Thr Ser
 115 120

<210> 792
 <211> 128
 <212> PRT
 <213> Homo sapiens

<400> 792
 Gln Thr Ala Thr Phe Gln Gly Ala Thr Thr Val Gly Gly Ser Lys Glu
 1 5 10 15
 Arg Lys Glu Lys Arg Arg Gln Arg Lys Gly Glu Glu Cys Ser Leu Pro
 20 25 30
 Gly Leu Thr Cys Phe Thr His Asp Asn Asn His Trp Gln Thr Ala Pro
 35 40 45
 Phe Trp Asn Leu Gly Ser Phe Cys Ala Cys Thr Ser Ser Asn Asn Asn
 50 55 60
 Thr Tyr Trp Cys Leu Arg Thr Val Asn Glu Thr His Asn Phe Leu Phe
 65 70 75 80
 Cys Glu Phe Ala Thr Gly Phe Leu Glu Tyr Phe Asp Met Asn Thr Asp
 85 90 95
 Pro Tyr Gln Leu Thr Asn Thr Val His Thr Val Glu Arg Gly Ile Leu
 100 105 110
 Asn Gln Leu His Val Gln Leu Met Gly Ala Gln Lys Leu Ser Arg Val
 115 120 125

<210> 793
 <211> 190
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (3)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 793
 Asp Pro Xaa Val Arg Ser Gln Lys Lys Lys Lys Lys Met Ser Ser Trp
 1 5 10 15
 Pro Tyr Phe Gln Pro Phe Asp Ser Leu Ser Thr Ser Leu Val Leu Val
 20 25 30
 Cys Leu Cys Gln Arg His Val Arg His Leu Gln Arg Asp Ala Leu Ser
 35 40 45
 Gln Leu Met Asn Gly Pro Ile Arg Lys Lys Leu Lys Ile Ile Pro Glu
 50 55 60
 Asp Gln Ser Trp Gly Gly Gln Ala Thr Asn Val Phe Val Asn Met Glu
 65 70 75 80
 Glu Asp Phe Met Lys Pro Val Ile Ser Ile Val Asp Glu Leu Leu Glu
 85 90 95
 Ala Gly Ile Asn Val Thr Val Tyr Asn Gly Gln Leu Asp Leu Ile Val
 100 105 110
 Asp Thr Met Gly Gln Glu Ala Trp Val Arg Lys Leu Lys Trp Pro Glu
 115 120 125
 Leu Pro Lys Phe Ser Gln Leu Lys Trp Lys Ala Leu Tyr Ser Asp Pro
 130 135 140
 Lys Ser Leu Glu Thr Ser Ala Phe Val Lys Ser Tyr Lys Asn Leu Ala
 145 150 155 160
 Phe Tyr Trp Ile Leu Lys Ala Gly His Met Val Pro Ser Asp Gln Gly
 165 170 175
 Asp Met Ala Leu Lys Met Met Arg Leu Val Thr Gln Gln Glu
 180 185 190

<210> 794
 <211> 260

738

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (106)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 794

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Asn His Ser Cys Trp Gln Gly Pro Gln Leu Met Pro Ala Ser Ser Pro
  1             5             10             15

Phe Leu Leu Ala Pro Lys Gly Pro Pro Gly Asn Met Gly Gly Pro Val
      20             25             30

Arg Glu Pro Ala Leu Ser Val Ala Leu Trp Leu Ser Trp Gly Ala Ala
      35             40             45

Leu Gly Ala Val Ala Cys Ala Met Ala Leu Leu Thr Gln Gln Thr Glu
      50             55             60

Leu Gln Ser Leu Arg Arg Glu Val Ser Arg Leu Gln Gly Thr Gly Gly
      65             70             75             80

Pro Ser Gln Asn Gly Glu Gly Tyr Pro Trp Gln Ser Leu Pro Glu Gln
      85             90             95

Ser Ser Asp Ala Leu Glu Ala Trp Glu Xaa Gly Glu Arg Ser Arg Lys
      100            105            110

Arg Arg Ala Val Leu Thr Gln Lys Gln Lys Lys Gln His Ser Val Leu
      115            120            125

His Leu Val Pro Ile Asn Ala Thr Ser Lys Asp Asp Ser Asp Val Thr
      130            135            140

Glu Val Met Trp Gln Pro Ala Leu Arg Arg Gly Arg Gly Leu Gln Ala
      145            150            155            160

Gln Gly Tyr Gly Val Arg Ile Gln Asp Ala Gly Val Tyr Leu Leu Tyr
      165            170            175

Ser Gln Val Leu Phe Gln Asp Val Thr Phe Thr Met Gly Gln Val Val
      180            185            190

Ser Arg Glu Gly Gln Gly Arg Gln Glu Thr Leu Phe Arg Cys Ile Arg
      195            200            205

Ser Met Pro Ser His Pro Asp Arg Ala Tyr Asn Ser Cys Tyr Ser Ala
      210            215            220

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739

Gly Val Phe His Leu His Gln Gly Asp Ile Leu Ser Val Ile Ile Pro
 225 230 235 240

Arg Ala Arg Ala Lys Leu Asn Leu Ser Pro His Gly Thr Phe Leu Gly
 245 250 255

Phe Val Lys Leu
 260

<210> 795

<211> 310

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (72)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 795

Gly Thr Arg Leu Arg Val Ala Leu Glu Ala Gln Ser Pro Arg Arg Arg
 1 5 10 15

Ala Gly Trp Cys Ser Cys Ala Gly Gly Val Leu Arg Leu Gly Val Val
 20 25 30

Thr Gly Ser Arg Met Ala Ser Asp Ser Gly Asn Gln Gly Thr Leu Cys
 35 40 45

Thr Leu Glu Phe Ala Val Gln Met Thr Cys Gln Ser Cys Val Asp Ala
 50 55 60

Val Arg Lys Ser Leu Gln Gly Xaa Ala Gly Val Gln Asp Val Glu Val
 65 70 75 80

His Leu Glu Asp Gln Met Val Leu Val His Thr Thr Leu Pro Ser Gln
 85 90 95

Glu Val Gln Ala Leu Leu Glu Gly Thr Gly Arg Gln Ala Val Leu Lys
 100 105 110

Gly Met Gly Ser Gly Gln Leu Gln Asn Leu Gly Ala Ala Val Ala Ile
 115 120 125

Leu Gly Gly Pro Gly Thr Val Gln Gly Val Val Arg Phe Leu Gln Leu
 130 135 140

Thr Pro Glu Arg Cys Leu Ile Glu Gly Thr Ile Asp Gly Leu Glu Pro
 145 150 155 160

740

Gly Leu His Gly Leu His Val His Gln Tyr Gly Asp Leu Thr Asn Asn
 165 170 175
 Cys Asn Ser Cys Gly Asn His Phe Asn Pro Asp Gly Ala Ser His Gly
 180 185 190
 Gly Pro Gln Asp Ser Asp Arg His Arg Gly Asp Leu Gly Asn Val Arg
 195 200 205
 Ala Asp Ala Asp Gly Arg Ala Ile Phe Arg Met Glu Asp Glu Gln Leu
 210 215 220
 Lys Val Trp Asp Val Ile Gly Arg Ser Leu Ile Ile Asp Glu Gly Glu
 225 230 235 240
 Asp Asp Leu Gly Arg Gly Gly His Pro Leu Ser Lys Ile Thr Gly Asn
 245 250 255
 Ser Gly Glu Arg Leu Ala Cys Gly Ile Ile Ala Arg Ser Ala Gly Leu
 260 265 270
 Phe Gln Asn Pro Lys Gln Ile Cys Ser Cys Asp Gly Leu Thr Ile Trp
 275 280 285
 Glu Glu Arg Gly Arg Pro Ile Ala Gly Lys Gly Arg Lys Glu Ser Ala
 290 295 300
 Gln Pro Pro Ala His Leu
 305 310

<210> 796

<211> 465

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (59)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 796

Ala Gly Glu Lys Leu Leu Lys Asp Cys Val Leu Leu His Leu Pro Cys
 1 5 10 15
 Ala Arg Ser Pro Pro Val Ser His Ser Val Thr Met Val Gln Trp Lys
 20 25 30
 Arg Leu Cys Gln Leu His Tyr Leu Trp Ala Leu Gly Cys Tyr Met Leu

741

35	40	45
Leu Ala Thr Val Ala Leu Lys Leu Ser Phe Xaa Leu Lys Cys Asp Ser		
50	55	60
Asp His Leu Gly Leu Glu Ser Arg Glu Ser Gln Ser Gln Tyr Cys Arg		
65	70	75 80
Asn Ile Leu Tyr Asn Phe Leu Lys Leu Pro Ala Lys Arg Ser Ile Asn		
	85	90 95
Cys Ser Gly Val Thr Arg Gly Asp Gln Glu Ala Val Leu Gln Ala Ile		
	100	105 110
Leu Asn Asn Leu Glu Val Lys Lys Lys Arg Glu Pro Phe Thr Asp Thr		
	115	120 125
His Tyr Leu Ser Leu Thr Arg Asp Cys Glu His Phe Lys Ala Glu Arg		
	130	135 140
Lys Phe Ile Gln Phe Pro Leu Ser Lys Glu Glu Val Glu Phe Pro Ile		
	145	150 155 160
Ala Tyr Ser Met Val Ile His Glu Lys Ile Glu Asn Phe Glu Arg Leu		
	165	170 175
Leu Arg Ala Val Tyr Ala Pro Gln Asn Ile Tyr Cys Val His Val Asp		
	180	185 190
Glu Lys Ser Pro Glu Thr Phe Lys Glu Ala Val Lys Ala Ile Ile Ser		
	195	200 205
Cys Phe Pro Asn Val Phe Ile Ala Ser Lys Leu Val Arg Val Val Tyr		
	210	215 220
Ala Ser Trp Ser Arg Val Gln Ala Asp Leu Asn Cys Met Glu Asp Leu		
	225	230 235 240
Leu Gln Ser Ser Val Pro Trp Lys Tyr Phe Leu Asn Thr Cys Gly Thr		
	245	250 255
Asp Phe Pro Ile Lys Ser Asn Ala Glu Met Val Gln Ala Leu Lys Met		
	260	265 270
Leu Asn Gly Arg Asn Ser Met Glu Ser Glu Val Pro Pro Lys His Lys		
	275	280 285
Glu Thr Arg Trp Lys Tyr His Phe Glu Val Val Arg Asp Thr Leu His		
	290	295 300
Leu Thr Asn Lys Lys Lys Asp Pro Pro Pro Tyr Asn Leu Thr Met Phe		

742

305 310 315 320
 Thr Gly Asn Ala Tyr Ile Val Ala Ser Arg Asp Phe Val Gln His Val
 325 330 335
 Leu Lys Asn Pro Lys Ser Gln Gln Leu Ile Glu Trp Val Lys Asp Thr
 340 345 350
 Tyr Ser Pro Asp Glu His Leu Trp Ala Thr Leu Gln Arg Ala Arg Trp
 355 360 365
 Met Pro Gly Ser Val Pro Asn His Pro Lys Tyr Asp Ile Ser Asp Met
 370 375 380
 Thr Ser Ile Ala Arg Leu Val Lys Trp Gln Gly His Glu Gly Asp Ile
 385 390 395 400
 Asp Lys Gly Ala Pro Tyr Ala Pro Cys Ser Gly Ile His Gln Arg Ala
 405 410 415
 Ile Cys Val Tyr Gly Ala Gly Asp Leu Asn Trp Met Leu Gln Asn His
 420 425 430
 His Leu Leu Ala Asn Lys Phe Asp Pro Lys Val Asp Asp Asn Ala Leu
 435 440 445
 Gln Cys Leu Glu Glu Tyr Leu Arg Tyr Lys Ala Ile Tyr Gly Thr Glu
 450 455 460
 Leu
 465

<210> 797

<211> 977

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (72)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (762)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 797

Gly Ser Leu Ser Arg Leu Pro Thr Ile Thr Met Ala Lys Gly Phe Tyr

743

1	5	10	15
Ile Ser Lys Ser Leu Gly Ile Leu Gly Ile Leu Leu Gly Val Ala Ala	20	25	30
Val Cys Thr Ile Ile Ala Leu Ser Val Val Tyr Ser Gln Glu Lys Asn	35	40	45
Lys Asn Ala Asn Ser Ser Pro Val Ala Ser Thr Thr Pro Ser Ala Ser	50	55	60
Ala Thr Thr Asn Pro Ala Ser Xaa Thr Thr Leu Asp Gln Ser Lys Ala	65	70	75
Trp Asn Arg Tyr Arg Leu Pro Asn Thr Leu Lys Pro Asp Ser Tyr Arg	85	90	95
Val Thr Leu Arg Pro Tyr Leu Thr Pro Asn Asp Arg Gly Leu Tyr Val	100	105	110
Phe Lys Gly Ser Ser Thr Val Arg Phe Thr Cys Lys Glu Ala Thr Asp	115	120	125
Val Ile Ile Ile His Ser Lys Lys Leu Asn Tyr Thr Leu Ser Gln Gly	130	135	140
His Arg Val Val Leu Arg Gly Val Gly Gly Ser Gln Pro Pro Asp Ile	145	150	155
Asp Lys Thr Glu Leu Val Glu Pro Thr Glu Tyr Leu Val Val His Leu	165	170	175
Lys Gly Ser Leu Val Lys Asp Ser Gln Tyr Glu Met Asp Ser Glu Phe	180	185	190
Glu Gly Glu Leu Ala Asp Asp Leu Ala Gly Phe Tyr Arg Ser Glu Tyr	195	200	205
Met Glu Gly Asn Val Arg Lys Val Val Ala Thr Thr Gln Met Gln Ala	210	215	220
Ala Asp Ala Arg Lys Ser Phe Pro Cys Phe Asp Glu Pro Ala Met Lys	225	230	235
Ala Glu Phe Asn Ile Thr Leu Ile His Pro Lys Asp Leu Thr Ala Leu	245	250	255
Ser Asn Met Leu Pro Lys Gly Pro Ser Thr Pro Leu Pro Glu Asp Pro	260	265	270
Asn Trp Asn Val Thr Glu Phe His Thr Thr Pro Lys Met Ser Thr Tyr			

275	280	285
Leu Leu Ala Phe Ile Val Ser Glu Phe Asp Tyr Val Glu Lys Gln Ala		
290	295	300
Ser Asn Gly Val Leu Ile Arg Ile Trp Ala Arg Pro Ser Ala Ile Ala		
305	310	315 320
Ala Gly His Gly Asp Tyr Ala Leu Asn Val Thr Gly Pro Ile Leu Asn		
	325	330 335
Phe Phe Ala Gly His Tyr Asp Thr Pro Tyr Pro Leu Pro Lys Ser Asp		
	340	345 350
Gln Ile Gly Leu Pro Asp Phe Asn Ala Gly Ala Met Glu Asn Trp Gly		
	355	360 365
Leu Val Thr Tyr Arg Glu Asn Ser Leu Leu Phe Asp Pro Leu Ser Ser		
	370	375 380
Ser Ser Ser Asn Lys Glu Arg Val Val Thr Val Ile Ala His Glu Leu		
385	390	395 400
Ala His Gln Trp Phe Gly Asn Leu Val Thr Ile Glu Trp Trp Asn Asp		
	405	410 415
Leu Trp Leu Asn Glu Gly Phe Ala Ser Tyr Val Glu Tyr Leu Gly Ala		
	420	425 430
Asp Tyr Ala Glu Pro Thr Trp Asn Leu Lys Asp Leu Met Val Leu Asn		
	435	440 445
Asp Val Tyr Arg Val Met Ala Val Asp Ala Leu Ala Ser Ser His Pro		
	450	455 460
Leu Ser Thr Pro Ala Ser Glu Ile Asn Thr Pro Ala Gln Ile Ser Glu		
465	470	475 480
Leu Phe Asp Ala Ile Ser Tyr Ser Lys Gly Ala Ser Val Leu Arg Met		
	485	490 495
Leu Ser Ser Phe Leu Ser Glu Asp Val Phe Lys Gln Gly Leu Ala Ser		
	500	505 510
Tyr Leu His Thr Phe Ala Tyr Gln Asn Thr Ile Tyr Leu Asn Leu Trp		
	515	520 525
Asp His Leu Gln Glu Ala Val Asn Asn Arg Ser Ile Gln Leu Pro Thr		
530	535	540
Thr Val Arg Asp Ile Met Asn Arg Trp Thr Leu Gln Met Gly Phe Pro		

545		550		555		560
Val Ile Thr Val Asp Thr Ser Thr Gly Thr Leu Ser Gln Glu His Phe						
	565			570		575
Leu Leu Asp Pro Asp Ser Asn Val Thr Arg Pro Ser Glu Phe Asn Tyr						
	580			585		590
Val Trp Ile Val Pro Ile Thr Ser Ile Arg Asp Gly Arg Gln Gln Gln						
	595			600		605
Asp Tyr Trp Leu Ile Asp Val Arg Ala Gln Asn Asp Leu Phe Ser Thr						
	610			615		620
Ser Gly Asn Glu Trp Val Leu Leu Asn Leu Asn Val Thr Gly Tyr Tyr						
	625			630		635
Arg Val Asn Tyr Asp Glu Glu Asn Trp Arg Lys Ile Gln Thr Gln Leu						
	645			650		655
Gln Arg Asp His Ser Ala Ile Pro Val Ile Asn Arg Ala Gln Ile Ile						
	660			665		670
Asn Asp Ala Phe Asn Leu Ala Ser Ala His Lys Val Pro Val Thr Leu						
	675			680		685
Ala Leu Asn Asn Thr Leu Phe Leu Ile Glu Glu Arg Gln Tyr Met Pro						
	690			695		700
Trp Glu Ala Ala Leu Ser Ser Leu Ser Tyr Phe Lys Leu Met Phe Asp						
	705			710		715
Arg Ser Glu Val Tyr Gly Pro Met Lys Asn Tyr Leu Lys Lys Gln Val						
	725			730		735
Thr Pro Leu Phe Ile His Phe Arg Asn Asn Thr Asn Asn Trp Arg Glu						
	740			745		750
Ile Pro Glu Asn Leu Met Asp Gln Tyr Xaa Glu Val Asn Ala Ile Ser						
	755			760		765
Thr Ala Cys Ser Asn Gly Val Pro Glu Cys Glu Glu Met Val Ser Gly						
	770			775		780
Leu Phe Lys Gln Trp Met Glu Asn Pro Asn Asn Asn Pro Ile His Pro						
	785			790		795
Asn Leu Arg Ser Thr Val Tyr Cys Asn Ala Ile Ala Gln Gly Gly Glu						
	805			810		815
Glu Glu Trp Asp Phe Ala Trp Glu Gln Phe Arg Asn Ala Thr Leu Val						

746

820					825					830						
Asn	Glu	Ala	Asp	Lys	Leu	Arg	Ala	Ala	Leu	Ala	Cys	Ser	Lys	Glu	Leu	
835					840					845						
Trp	Ile	Leu	Asn	Arg	Tyr	Leu	Ser	Tyr	Thr	Leu	Asn	Pro	Asp	Leu	Ile	
850					855					860						
Arg	Lys	Gln	Asp	Ala	Thr	Ser	Thr	Ile	Ile	Ser	Ile	Thr	Asn	Asn	Val	
865					870					875					880	
Ile	Gly	Gln	Gly	Leu	Val	Trp	Asp	Phe	Val	Gln	Ser	Asn	Trp	Lys	Lys	
885					890					895						
Leu	Phe	Asn	Asp	Tyr	Gly	Gly	Gly	Ser	Phe	Ser	Phe	Ser	Asn	Leu	Ile	
900					905					910						
Gln	Ala	Val	Thr	Arg	Arg	Phe	Ser	Thr	Glu	Tyr	Glu	Leu	Gln	Gln	Leu	
915					920					925						
Glu	Gln	Phe	Lys	Lys	Asp	Asn	Glu	Glu	Thr	Gly	Phe	Gly	Ser	Gly	Thr	
930					935					940						
Arg	Ala	Leu	Glu	Gln	Ala	Leu	Glu	Lys	Thr	Lys	Ala	Asn	Ile	Lys	Trp	
945					950					955					960	
Val	Lys	Glu	Asn	Lys	Glu	Val	Val	Leu	Gln	Trp	Phe	Thr	Glu	Asn	Ser	
965					970					975						

Lys

<210> 798

<211> 851

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (267)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 798

Pro Ala Ala Asn Ser Gln Xaa Ala Ala Arg Pro Val Ala Ser Pro Arg

1	5	10	15
Gly Ala Tyr Lys Ala Ser Ala Thr Pro Arg Ala Pro Ala Ala Pro Tyr	20	25	30
Leu His Arg Arg Pro His Ser Ala Ala Leu Arg Ala Ala Pro Ala Ala	35	40	45
Gly Arg Ala Pro Cys Pro Pro Ala Pro Ala Arg Asn Arg Arg Leu Arg	50	55	60
Ala Asp Pro Gly Leu Cys Val Leu Ala Arg Ser Ala Ala Leu Arg Gly	65	70	75
Arg Gly Arg Leu Ser Pro Arg Gly Pro Arg Gly Pro Asn Met Gly Gly	85	90	95
Cys Thr Val Lys Pro Gln Leu Leu Leu Leu Ala Leu Val Leu His Pro	100	105	110
Trp Asn Pro Cys Leu Gly Ala Asp Ser Glu Lys Pro Ser Ser Ile Pro	115	120	125
Thr Asp Lys Leu Leu Val Ile Thr Val Ala Thr Lys Glu Ser Asp Gly	130	135	140
Phe His Arg Phe Met Gln Ser Ala Lys Tyr Phe Asn Tyr Thr Val Lys	145	150	155
Val Leu Gly Gln Gly Glu Glu Trp Arg Gly Gly Asp Gly Ile Asn Ser	165	170	175
Ile Gly Gly Gly Gln Lys Val Arg Leu Met Lys Glu Val Met Glu His	180	185	190
Tyr Ala Asp Gln Asp Asp Leu Val Val Met Phe Thr Glu Cys Phe Asp	195	200	205
Val Ile Phe Ala Gly Gly Pro Glu Glu Val Leu Lys Lys Phe Gln Lys	210	215	220
Ala Asn His Lys Val Val Phe Ala Ala Asp Gly Ile Leu Trp Pro Asp	225	230	235
Lys Arg Leu Ala Asp Lys Tyr Pro Val Val His Ile Gly Lys Arg Tyr	245	250	255
Leu Asn Ser Gly Gly Phe Ile Gly Tyr Ala Xaa Tyr Val Asn Arg Ile	260	265	270
Val Gln Gln Trp Asn Leu Gln Asp Asn Asp Asp Asp Gln Leu Phe Tyr			

275	280	285
Thr Lys Val Tyr Ile Asp Pro Leu Lys Arg Glu Ala Ile Asn Ile Thr		
290	295	300
Leu Asp His Lys Cys Lys Ile Phe Gln Thr Leu Asn Gly Ala Val Asp		
305	310	315 320
Glu Val Val Leu Lys Phe Glu Asn Gly Lys Ala Arg Ala Lys Asn Thr		
	325 330	335
Phe Tyr Glu Thr Leu Pro Val Ala Ile Asn Gly Asn Gly Pro Thr Lys		
	340 345	350
Ile Leu Leu Asn Tyr Phe Gly Asn Tyr Val Pro Asn Ser Trp Thr Gln		
	355 360	365
Asp Asn Gly Cys Thr Leu Cys Glu Phe Asp Thr Val Asp Leu Ser Ala		
	370 375	380
Val Asp Val His Pro Asn Val Ser Ile Gly Val Phe Ile Glu Gln Pro		
385	390 395	400
Thr Pro Phe Leu Pro Arg Phe Leu Asp Ile Leu Leu Thr Leu Asp Tyr		
	405 410	415
Pro Lys Glu Ala Leu Lys Leu Phe Ile His Asn Lys Glu Val Tyr His		
	420 425	430
Glu Lys Asp Ile Lys Val Phe Phe Asp Lys Ala Lys His Glu Ile Lys		
	435 440	445
Thr Ile Lys Ile Val Gly Pro Glu Glu Asn Leu Ser Gln Ala Glu Ala		
	450 455	460
Arg Asn Met Gly Met Asp Phe Cys Arg Gln Asp Glu Lys Cys Asp Tyr		
465	470 475	480
Tyr Phe Ser Val Asp Ala Asp Val Val Leu Thr Asn Pro Arg Thr Leu		
	485 490	495
Lys Ile Leu Ile Glu Gln Asn Arg Lys Ile Ile Ala Pro Leu Val Thr		
	500 505	510
Arg His Gly Lys Leu Trp Ser Asn Phe Trp Gly Ala Leu Ser Pro Asp		
	515 520	525
Gly Tyr Tyr Ala Arg Ser Glu Asp Tyr Val Asp Ile Val Gln Gly Asn		
	530 535	540
Arg Val Gly Val Trp Asn Val Pro Tyr Met Ala Asn Val Tyr Leu Ile		

545 550 555 560
 Lys Gly Lys Thr Leu Arg Ser Glu Met Asn Glu Arg Asn Tyr Phe Val
 565 570 575
 Arg Asp Lys Leu Asp Pro Asp Met Ala Leu Cys Arg Asn Ala Arg Glu
 580 585 590
 Met Thr Leu Gln Arg Glu Lys Asp Ser Pro Thr Pro Glu Thr Phe Gln
 595 600 605
 Met Leu Ser Pro Pro Lys Gly Val Phe Met Tyr Ile Ser Asn Arg His
 610 615 620
 Glu Phe Gly Arg Leu Leu Ser Thr Ala Asn Tyr Asn Thr Ser His Tyr
 625 630 635 640
 Asn Asn Asp Leu Trp Gln Ile Phe Glu Asn Pro Val Asp Trp Lys Glu
 645 650 655
 Lys Tyr Ile Asn Arg Asp Tyr Ser Lys Ile Phe Thr Glu Asn Ile Val
 660 665 670
 Glu Gln Pro Cys Pro Asp Val Phe Trp Phe Pro Ile Phe Ser Glu Lys
 675 680 685
 Ala Cys Asp Glu Leu Val Glu Glu Met Glu His Tyr Gly Lys Trp Ser
 690 695 700
 Gly Gly Lys His His Asp Ser Arg Ile Ser Gly Gly Tyr Glu Asn Val
 705 710 715 720
 Pro Thr Asp Asp Ile His Met Lys Gln Val Asp Leu Glu Asn Val Trp
 725 730 735
 Leu His Phe Ile Arg Glu Phe Ile Ala Pro Val Thr Leu Lys Val Phe
 740 745 750
 Ala Gly Tyr Tyr Thr Lys Gly Phe Ala Leu Leu Asn Phe Val Val Lys
 755 760 765
 Tyr Ser Pro Glu Arg Gln Arg Ser Leu Arg Pro His His Asp Ala Ser
 770 775 780
 Thr Phe Thr Ile Asn Ile Ala Leu Asn Asn Val Gly Glu Asp Phe Gln
 785 790 795 800
 Gly Gly Gly Cys Lys Phe Leu Arg Tyr Asn Cys Ser Ile Glu Ser Pro
 805 810 815
 Arg Lys Gly Trp Ser Phe Met His Pro Gly Arg Leu Thr His Leu His

750

820 825 830
 Glu Gly Leu Pro Val Lys Asn Gly Thr Arg Tyr Ile Ala Val Ser Phe
 835 840 845

Ile Asp Pro
 850

<210> 799

<211> 138

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (126)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 799

Phe Ala Pro Pro Phe Gly Phe Met Glu Leu Asn Tyr Ser Leu Val Gln
 1 5 10 15

Lys Val Val Thr Arg Phe Pro Pro Val Pro Gln Gln Gln Leu Leu Leu
 20 25 30

Ala Ser Leu Pro Ala Gly Ser Leu Arg Cys Ile Thr Cys Ala Val Val
 35 40 45

Gly Asn Gly Gly Ile Leu Asn Asn Ser His Met Gly Gln Glu Ile Asp
 50 55 60

Ser His Asp Tyr Val Phe Arg Leu Ser Gly Ala Leu Ile Lys Gly Tyr
 65 70 75 80

Glu Gln Asp Val Gly Thr Arg Thr Ser Phe Tyr Gly Phe Thr Ala Phe
 85 90 95

Ser Leu Thr Gln Ser Leu Leu Ile Leu Gly Asn Arg Gly Phe Lys Asn
 100 105 110

Val Pro Leu Gly Lys Asp Val Arg Tyr Leu Asp Phe Leu Xaa Ala Pro
 115 120 125

Gly Asn Met Lys Trp Leu Glu His Cys Leu
 130 135

<210> 800

751

<211> 585

<212> PRT

<213> Homo sapiens

<400> 800

Leu Pro Leu Cys Leu Leu Met Ala Gln Gln Arg Asn Gly Val Ile Phe
 1 5 10 15

Gln Glu Gly Gly Glu Lys His Leu Lys Leu Val Gly Lys Leu Tyr Asp
 20 25 30

Gln Cys His Asp Thr Leu Val Gln Phe Gly Gly Phe Leu Ala Ser Asn
 35 40 45

Leu Ser Thr Glu Asp Tyr Ile Lys Arg Val Pro Ser Ile Asp Val Leu
 50 55 60

Cys Asn Glu Phe His Thr Pro His Asp Ala Ala Phe Phe Leu Ser Arg
 65 70 75 80

Pro Met Tyr Ala His His Ile Ser Ser Lys Tyr Asp Glu Leu Lys Lys
 85 90 95

Ser Glu Lys Gly Ser Lys Gln Gln His Lys Val His Lys Tyr Ile Thr
 100 105 110

Ser Cys Glu Met Val Met Ala Pro Val His Glu Ala Val Val Ser Leu
 115 120 125

His Val Ser Lys Val Trp Asp Asp Ile Ser Pro Gln Phe Tyr Ala Thr
 130 135 140

Phe Trp Ser Leu Thr Met Tyr Asp Leu Ala Val Pro His Thr Ser Tyr
 145 150 155 160

Glu Arg Glu Val Asn Lys Leu Lys Val Gln Met Lys Ala Ile Asp Asp
 165 170 175

Asn Gln Glu Met Pro Pro Asn Lys Lys Lys Lys Glu Lys Glu Arg Cys
 180 185 190

Thr Ala Leu Gln Asp Lys Leu Leu Glu Glu Glu Lys Lys Gln Met Glu
 195 200 205

His Val Gln Arg Val Leu Gln Arg Leu Lys Leu Glu Lys Asp Asn Trp
 210 215 220

Leu Leu Ala Lys Ser Thr Lys Asn Glu Thr Ile Thr Lys Phe Leu Gln
 225 230 235 240

Leu Cys Ile Phe Pro Arg Cys Ile Phe Ser Ala Ile Asp Ala Val Tyr

752

	245		250		255
Cys Ala Arg Phe Val Glu Leu Val His Gln Gln Lys Thr Pro Asn Phe	260		265		270
Ser Thr Leu Leu Cys Tyr Asp Arg Val Phe Ser Asp Ile Ile Tyr Thr	275		280		285
Val Ala Ser Cys Thr Glu Asn Glu Ala Ser Arg Tyr Gly Arg Phe Leu	290		295		300
Cys Cys Met Leu Glu Thr Val Thr Arg Trp His Ser Asp Arg Ala Thr	305		310		315
Tyr Glu Lys Glu Cys Gly Asn Tyr Pro Gly Phe Leu Thr Ile Leu Arg	325		330		335
Ala Thr Gly Phe Asp Gly Gly Asn Lys Ala Asp Gln Leu Asp Tyr Glu	340		345		350
Asn Phe Arg His Val Val His Lys Trp His Tyr Lys Leu Thr Lys Ala	355		360		365
Ser Val His Cys Leu Glu Thr Gly Glu Tyr Thr His Ile Arg Asn Ile	370		375		380
Leu Ile Val Leu Thr Lys Ile Leu Pro Trp Tyr Pro Lys Val Leu Asn	385		390		395
Leu Gly Gln Ala Leu Glu Arg Arg Val His Lys Ile Cys Gln Glu Glu	405		410		415
Lys Glu Lys Arg Pro Asp Leu Tyr Ala Leu Ala Met Gly Tyr Ser Gly	420		425		430
Gln Leu Lys Ser Arg Lys Ser Tyr Met Ile Pro Glu Asn Glu Phe His	435		440		445
His Lys Asp Pro Pro Pro Arg Asn Ala Val Ala Ser Val Gln Asn Gly	450		455		460
Pro Gly Gly Gly Pro Ser Ser Ser Ser Ile Gly Ser Ala Ser Lys Ser	465		470		475
Asp Glu Ser Ser Thr Glu Glu Thr Asp Lys Ser Arg Glu Arg Ser Gln	485		490		495
Cys Gly Val Lys Ala Val Asn Lys Ala Ser Ser Thr Thr Pro Lys Gly	500		505		510
Asn Ser Ser Asn Gly Asn Ser Gly Ser Asn Ser Asn Lys Ala Val Lys					

515	520	525
Glu Asn Asp Lys Glu Lys Gly Lys Glu Lys Glu Lys Glu Lys Lys Glu		
530	535	540
Lys Thr Pro Ala Thr Thr Pro Glu Ala Arg Val Leu Gly Lys Asp Gly		
545	550	555 560
Lys Glu Lys Pro Lys Glu Glu Arg Pro Asn Lys Asp Glu Lys Ala Arg		
565	570	575
Glu Thr Lys Val Lys Asn Ala Glu Val		
580	585	

<210> 801

<211> 161

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 801

Leu Ala Xaa Leu Trp Gly Asp Gly Ser Ile Met Ala Ser Met Gln Lys
1 5 10 15

Arg Leu Gln Lys Glu Leu Leu Ala Leu Gln Asn Asp Pro Pro Pro Gly
20 25 30

Met Thr Leu Asn Glu Lys Ser Val Gln Asn Ser Ile Thr Gln Trp Ile
35 40 45

Val Asp Met Glu Gly Ala Pro Gly Thr Leu Tyr Glu Gly Glu Lys Phe
50 55 60

Gln Leu Leu Phe Lys Phe Ser Ser Arg Tyr Pro Phe Asp Ser Pro Gln
65 70 75 80

Val Met Phe Thr Gly Glu Asn Ile Pro Val His Pro His Val Tyr Ser
85 90 95

Asn Gly His Ile Cys Leu Ser Ile Leu Thr Glu Asp Trp Ser Pro Ala
100 105 110

Leu Ser Val Gln Ser Val Cys Leu Ser Ile Ile Ser Met Leu Ser Ser
115 120 125

Cys Lys Glu Lys Arg Arg Pro Pro Asp Asn Ser Phe Tyr Val Arg Thr
 130 135 140

Cys Asn Lys Asn Pro Lys Lys Thr Lys Trp Trp Tyr His Asp Asp Thr
 145 150 155 160

Cys

<210> 802

<211> 298

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (216)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 802

Arg Lys Arg Ser Leu Pro Asn Lys Gly Arg Arg Arg Pro Arg Arg Gln
 1 5 10 15

Ser Xaa Val Gln Arg Lys Lys Arg Glu Glu Glu Glu Glu Gly Gly
 20 25 30

Glu Ser Lys Ala Asp Asp Pro Tyr Ala His Leu Ser Lys Lys Glu Lys
 35 40 45

Lys Lys Leu Lys Lys Gln Met Glu Tyr Glu Arg Gln Val Ala Ser Leu
 50 55 60

Lys Ala Ala Asn Ala Ala Glu Asn Asp Phe Ser Val Ser Gln Ala Glu
 65 70 75 80

Met Ser Ser Arg Gln Ala Met Leu Glu Asn Ala Ser Asp Ile Lys Leu
 85 90 95

Glu Lys Phe Ser Ile Ser Ala His Gly Lys Glu Leu Phe Val Asn Ala
 100 105 110

Asp Leu Tyr Ile Val Ala Gly Arg Arg Tyr Gly Leu Val Gly Pro Asn
 115 120 125

755

Gly Lys Gly Lys Thr Thr Leu Leu Lys His Ile Ala Asn Arg Ala Leu
 130 135 140
 Ser Ile Pro Pro Asn Ile Asp Val Leu Leu Cys Glu Gln Glu Val Val
 145 150 155 160
 Ala Asp Glu Thr Pro Ala Val Gln Ala Val Leu Arg Ala Asp Thr Lys
 165 170 175
 Arg Leu Lys Leu Leu Glu Glu Glu Arg Arg Leu Gln Gly Gln Leu Glu
 180 185 190
 Gln Gly Asp Asp Thr Ala Ala Glu Arg Leu Glu Lys Val Tyr Glu Glu
 195 200 205
 Leu Arg Ala Thr Gly Ala Ala Xaa Ala Glu Ala Lys Ala Arg Arg Ile
 210 215 220
 Leu Ala Gly Leu Gly Phe Asp Pro Glu Met Gln Asn Arg Pro Thr Gln
 225 230 235 240
 Lys Phe Ser Gly Gly Trp Arg Met Arg Val Ser Leu Ala Arg Ala Leu
 245 250 255
 Phe Met Glu Pro Thr Leu Leu Met Leu Asp Glu Pro Thr Asn His Leu
 260 265 270
 Asp Leu Asn Ala Val Ile Trp Leu Asn Lys Cys Val Thr Ala Phe Ala
 275 280 285
 Ser Leu Val Pro Ile Leu His Phe Leu Pro
 290 295

<210> 803

<211> 281

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (225)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 803

756

Gly Ala Xaa Gln Tyr Arg Gln His Ile Gln Val Phe Ile Asp Arg Phe
 1 5 10 15
 Arg Tyr Asn Ala Asn Arg Ala Ser Gln Val Gln Ser Lys Leu Lys Met
 20 25 30
 Leu Glu Lys Leu Pro Glu Leu Lys Pro Val Asp Lys Glu Ser Glu Val
 35 40 45
 Val Met Lys Phe Pro Asp Gly Phe Glu Lys Phe Ser Pro Pro Ile Leu
 50 55 60
 Gln Leu Asp Glu Val Asp Phe Tyr Tyr Asp Pro Lys His Val Ile Phe
 65 70 75 80
 Ser Arg Leu Ser Val Ser Ala Asp Leu Glu Ser Arg Ile Cys Val Val
 85 90 95
 Gly Glu Asn Gly Ala Gly Lys Ser Thr Met Leu Lys Leu Leu Leu Gly
 100 105 110
 Asp Leu Ala Pro Val Arg Gly Ile Arg His Ala His Arg Asn Leu Lys
 115 120 125
 Ile Gly Tyr Phe Ser Gln His His Val Glu Gln Leu Asp Leu Asn Val
 130 135 140
 Ser Ala Val Glu Leu Leu Ala Arg Lys Phe Pro Gly Arg Pro Glu Glu
 145 150 155 160
 Glu Tyr Arg His Gln Leu Gly Arg Tyr Gly Ile Ser Gly Glu Leu Ala
 165 170 175
 Met Arg Pro Leu Ala Ser Leu Ser Gly Gly Gln Lys Ser Arg Val Ala
 180 185 190
 Phe Ala Gln Met Thr Met Pro Cys Pro Asn Phe Tyr Ile Leu Asp Glu
 195 200 205
 Pro Thr Asn His Leu Asp Met Glu Thr Ile Glu Ala Leu Gly Arg Ala
 210 215 220
 Xaa Asn Asn Phe Arg Gly Gly Val Ile Leu Val Ser His Asp Glu Arg
 225 230 235 240
 Phe Ile Arg Leu Val Cys Arg Glu Leu Trp Val Cys Glu Gly Gly Gly
 245 250 255
 Val Thr Arg Val Glu Gly Gly Phe Asp Gln Tyr Arg Ala Leu Leu Gln
 260 265 270

Glu Gln Phe Arg Arg Glu Gly Phe Leu
275 280

<210> 804
<211> 65
<212> PRT
<213> Homo sapiens

<400> 804
Asn Val Leu Arg Leu Gly His Ile Lys Pro Thr Ile Phe Glu Asp His
1 5 10 15

Val Pro Ser Ala Leu Lys Thr Val Ser His Tyr Met Asn Met Thr Ile
20 25 30

Cys Ala His Leu Lys Phe Arg Ala Arg His Cys Asp Thr Asp Ala Glu
35 40 45

Ala Ser Arg Leu Val Lys Ser Leu Asp Phe Cys Gly Ile Phe Phe Val
50 55 60

Thr
65

<210> 805
<211> 166
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (84)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (92)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (105)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (124)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (132)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (144)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (145)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (165)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 805

Gly	Thr	Gly	Cys	Ile	Arg	Arg	Gly	His	Gln	Ala	Asp	His	Cys	Pro	Ser
1				5					10					15	

Ala	Met	Ala	Leu	Trp	Met	Arg	Leu	Leu	Pro	Leu	Leu	Ala	Leu	Leu	Ala
			20					25					30		

Leu	Trp	Gly	Pro	Asp	Pro	Ala	Ala	Ala	Phe	Val	Asn	Gln	His	Leu	Cys
		35					40					45			

Gly	Ser	His	Leu	Val	Glu	Ala	Leu	Tyr	Leu	Val	Cys	Gly	Glu	Arg	Gly
	50					55					60				

Phe	Phe	Tyr	Thr	Pro	Lys	Thr	Arg	Arg	Glu	Ala	Glu	Asp	Leu	Gln	Val
65					70					75				80	

Gly	Gln	Val	Xaa	Leu	Gly	Gly	Gly	Pro	Gly	Ala	Xaa	Ser	Leu	Gln	Pro
				85					90					95	

Leu	Ala	Leu	Glu	Gly	Val	Pro	Ala	Xaa	Ala	Trp	His	Cys	Gly	Thr	Met
			100					105					110		

Leu	Tyr	Gln	His	Leu	Leu	Pro	Leu	Pro	Ala	Gly	Xaa	Leu	Leu	Gln	Leu
		115					120					125			

Asp	Ala	Ala	Xaa	Arg	Gln	Pro	His	Thr	Arg	Arg	Leu	Leu	His	Arg	Xaa
	130						135					140			

Xaa	Trp	Asn	Lys	Ala	Leu	Glu	Pro	Ala	Lys	Lys	Lys	Lys	Arg	Gly	Gly
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

759

145 150 155 160

Arg Phe Arg Gly Xaa Lys
165

<210> 806

<211> 528

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (483)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 806

Pro Leu Thr Ser Thr Leu Gln Glu Leu Phe Leu Asn Leu Ile Pro Ser
1 5 10 15

Gln Cys Leu Gly Gly Leu Trp Gly His Arg Asp Arg Pro Gly His Ser
20 25 30

His Leu Cys Pro Ser Val Arg Ala Thr Val Thr Gln Phe Asn Lys Val
35 40 45

Ala Gly Ala Val Val Ser Ser Val Leu Gly Ala Thr Ser Thr Gly Glu
50 55 60

Gly Pro Gly Glu Val Thr Ile Arg Pro Leu Arg Pro Pro Gln Arg Ala
65 70 75 80

Arg Leu Leu Glu Lys Trp Ile Arg Val Ala Glu Glu Cys Arg Leu Leu
85 90 95

Arg Asn Phe Ser Ser Val Tyr Ala Val Val Ser Ala Leu Gln Ser Ser
100 105 110

Pro Ile His Arg Leu Arg Ala Ala Trp Gly Glu Ala Thr Arg Asp Ser
115 120 125

Leu Arg Val Phe Ser Ser Leu Cys Gln Ile Phe Ser Glu Glu Asp Asn
130 135 140

Tyr Ser Gln Ser Arg Glu Leu Leu Val Gln Glu Val Lys Leu Gln Ser
145 150 155 160

Pro Leu Glu Pro His Ser Lys Lys Ala Pro Arg Ser Gly Ser Arg Gly
165 170 175

760

Gly Gly Val Val Pro Tyr Leu Gly Thr Phe Leu Lys Asp Leu Val Met
 180 185 190

Leu Asp Ala Ala Ser Lys Asp Glu Leu Glu Asn Gly Tyr Ile Asn Phe
 195 200 205

Asp Lys Arg Arg Lys Glu Phe Ala Val Leu Ser Glu Leu Arg Arg Leu
 210 215 220

Gln Asn Glu Cys Arg Gly Tyr Asn Leu Gln Pro Asp His Asp Ile Gln
 225 230 235 240

Arg Trp Leu Gln Gly Leu Arg Pro Leu Thr Glu Ala Gln Ser His Arg
 245 250 255

Val Ser Cys Glu Val Glu Pro Pro Gly Ser Ser Asp Pro Pro Ala Pro
 260 265 270

Arg Val Leu Arg Pro Thr Leu Val Ile Ser Gln Trp Thr Glu Val Leu
 275 280 285

Gly Ser Val Gly Val Pro Thr Pro Leu Val Ser Cys Asp Arg Pro Ser
 290 295 300

Thr Gly Gly Asp Glu Ala Pro Thr Thr Pro Ala Pro Leu Leu Thr Arg
 305 310 315 320

Leu Ala Gln His Met Lys Trp Pro Ser Val Ser Ser Leu Asp Ser Ala
 325 330 335

Leu Glu Ser Ser Pro Ser Leu His Ser Pro Ala Asp Pro Ser His Leu
 340 345 350

Ser Pro Pro Ala Ser Ser Pro Arg Pro Ser Arg Gly His Arg Arg Ser
 355 360 365

Ala Ser Cys Gly Ser Pro Leu Ser Gly Gly Ala Glu Glu Ala Ser Gly
 370 375 380

Gly Thr Gly Tyr Gly Gly Glu Gly Ser Gly Pro Gly Ala Ser Asp Cys
 385 390 395 400

Arg Ile Ile Arg Val Gln Met Glu Leu Gly Glu Asp Gly Ser Val Tyr
 405 410 415

Lys Ser Ile Leu Val Thr Ser Gln Asp Lys Ala Pro Ser Val Ile Ser
 420 425 430

Arg Val Leu Lys Lys Asn Asn Arg Asp Ser Ala Val Ala Ser Glu Tyr
 435 440 445

761

Glu Leu Val Gln Leu Leu Pro Gly Glu Arg Glu Leu Thr Ile Pro Ala
 450 455 460
 Ser Ala Asn Val Phe Tyr Ala Met Asp Gly Ala Ser His Asp Phe Leu
 465 470 475 480
 Leu Arg Xaa Arg Arg Arg Ser Ser Thr Ala Thr Pro Gly Val Thr Ser
 485 490 495
 Gly Pro Ser Ala Ser Gly Thr Pro Pro Ser Glu Gly Gly Gly Gly Ser
 500 505 510
 Phe Pro Arg Ile Lys Ala Thr Gly Arg Lys Ile Ala Arg Ala Leu Phe
 515 520 525

<210> 807

<211> 319

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (306)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (316)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (319)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 807

Ala Ser Pro Gly Arg Ala Ala Gly Arg Gly Leu Ser Ala Gly Cys Thr
 1 5 10 15
 Thr Cys Arg Gly Ala Arg Pro Leu Val Lys Glu Lys Met Leu Ser Arg
 20 25 30
 Leu Arg Val Val Ser Thr Thr Cys Thr Leu Ala Cys Arg His Leu His
 35 40 45
 Ile Lys Glu Lys Gly Lys Pro Leu Met Leu Asn Pro Arg Thr Asn Lys

762

50		55		60
Gly Met Ala Phe Thr Leu Gln Glu Arg Gln Met Leu Gly Leu Gln Gly				
65		70		75
				80
Leu Leu Pro Pro Lys Ile Glu Thr Gln Asp Ile Gln Ala Leu Arg Phe				
	85		90	95
His Arg Asn Leu Lys Lys Met Thr Ser Pro Leu Glu Lys Tyr Ile Tyr				
	100		105	110
Ile Met Gly Ile Gln Glu Arg Asn Glu Lys Leu Phe Tyr Arg Ile Leu				
	115		120	125
Gln Asp Asp Ile Glu Ser Leu Met Pro Ile Val Tyr Thr Pro Thr Val				
	130		135	140
Gly Leu Ala Cys Ser Gln Tyr Gly His Ile Phe Arg Arg Pro Lys Gly				
145		150		155
				160
Leu Phe Ile Ser Ile Ser Asp Arg Gly His Val Arg Ser Ile Val Asp				
	165		170	175
Asn Trp Pro Glu Asn His Val Lys Ala Val Val Val Thr Asp Gly Glu				
	180		185	190
Arg Ile Leu Gly Leu Gly Asp Leu Gly Val Tyr Gly Met Gly Ile Pro				
	195		200	205
Val Gly Lys Leu Cys Leu Tyr Thr Ala Cys Ala Gly Ile Arg Pro Asp				
	210		215	220
Arg Cys Leu Pro Val Cys Ile Asp Val Gly Thr Asp Asn Ile Ala Leu				
225		230		235
				240
Leu Lys Asp Pro Phe Tyr Met Gly Leu Tyr Gln Lys Arg Asp Arg Thr				
	245		250	255
Gln Gln Tyr Asp Asp Leu Ile Asp Glu Phe Met Lys Ala Ile Thr Asp				
	260		265	270
Arg Tyr Gly Arg Asn Thr Leu Ile Gln Phe Glu Asp Phe Gly Asn His				
	275		280	285
Asn Gly Ile Gln Val Leu Glu Glu Ser Thr Glu Glu Lys Tyr Cys Tyr				
	290		295	300
Phe Xaa Met Met Asp Ile Ser Arg Gly Gln Leu Xaa Val Ser Xaa				
305		310		315

<210> 808

<211> 434

<212> PRT

<213> Homo sapiens

<400> 808

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Ile Arg His Glu Glu Asp Thr Val Gln Val Ser Thr Leu Leu Arg Pro
 1              5              10              15

Pro His Cys Pro Arg Met Val Gln Asp Gly Asp Phe Val Arg Tyr His
      20              25              30

Tyr Asn Gly Thr Leu Leu Asp Gly Thr Ser Phe Asp Thr Ser Tyr Ser
      35              40              45

Lys Gly Gly Thr Tyr Asp Thr Tyr Val Gly Ser Gly Trp Leu Ile Lys
      50              55              60

Gly Met Asp Gln Gly Leu Leu Gly Met Cys Pro Gly Glu Arg Arg Lys
      65              70              75              80

Ile Ile Ile Pro Pro Phe Leu Ala Tyr Gly Glu Lys Gly Tyr Gly Thr
      85              90              95

Val Ile Pro Pro Gln Ala Ser Leu Val Phe His Val Leu Leu Ile Asp
      100             105             110

Val His Asn Pro Lys Asp Ala Val Gln Leu Glu Thr Leu Glu Leu Pro
      115             120             125

Pro Gly Cys Val Arg Arg Ala Gly Ala Gly Asp Phe Met Arg Tyr His
      130             135             140

Tyr Asn Gly Ser Leu Met Asp Gly Thr Leu Phe Asp Ser Ser Tyr Ser
      145             150             155             160

Arg Asn His Thr Tyr Asn Thr Tyr Ile Gly Gln Gly Tyr Ile Ile Pro
      165             170             175

Gly Met Asp Gln Gly Leu Gln Gly Ala Cys Met Gly Glu Arg Arg Arg
      180             185             190

Ile Thr Ile Pro Pro His Leu Ala Tyr Gly Glu Asn Gly Thr Gly Asp
      195             200             205

Lys Ile Pro Gly Ser Ala Val Leu Ile Phe Asn Val His Val Ile Asp
      210             215             220

Phe His Asn Pro Ala Asp Val Val Glu Ile Arg Thr Leu Ser Arg Pro
      225             230             235             240

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764

Ser Glu Thr Cys Asn Glu Thr Thr Lys Leu Gly Asp Phe Val Arg Tyr
 245 250 255

His Tyr Asn Cys Ser Leu Leu Asp Gly Thr Gln Leu Phe Thr Ser His
 260 265 270

Asp Tyr Gly Ala Pro Gln Glu Ala Thr Leu Gly Ala Asn Lys Val Ile
 275 280 285

Glu Gly Leu Asp Thr Gly Leu Gln Gly Met Cys Val Gly Glu Arg Arg
 290 295 300

Gln Leu Ile Val Pro Pro His Leu Ala His Gly Glu Ser Gly Ala Arg
 305 310 315 320

Gly Val Pro Gly Ser Ala Val Leu Leu Phe Glu Val Glu Leu Val Ser
 325 330 335

Arg Glu Asp Gly Leu Pro Thr Gly Tyr Leu Phe Val Trp His Lys Asp
 340 345 350

Pro Pro Ala Asn Leu Phe Glu Asp Met Asp Leu Asn Lys Asp Gly Glu
 355 360 365

Val Pro Pro Glu Glu Phe Ser Thr Phe Ile Lys Ala Gln Val Ser Glu
 370 375 380

Gly Lys Gly Arg Leu Met Pro Gly Gln Asp Pro Glu Lys Thr Ile Gly
 385 390 395 400

Asp Met Phe Gln Asn Gln Asp Arg Asn Gln Asp Gly Lys Ile Thr Val
 405 410 415

Asp Glu Leu Lys Leu Lys Ser Asp Glu Asp Glu Glu Arg Val His Glu
 420 425 430

Glu Leu

<210> 809

<211> 125

<212> PRT

<213> Homo sapiens

<400> 809

Gln Gly Gln Asp Lys Pro Ser Gly Leu Trp Pro Pro Gly Pro Trp Phe
 1 5 10 15

765

Pro Cys Pro Thr Thr Trp Ser Pro His Gly Trp Leu Ala Gly Cys Pro
 20 25 30
 Cys Val Cys Val Thr His Gly Val Ser Ala Gly Leu Cys Pro Gly Trp
 35 40 45
 Glu Gly Val Tyr Val Ala Leu Thr Val Leu Ala Gln Ser Trp Trp Ile
 50 55 60
 Leu Ser Met Asp Asn Asp Thr Leu Arg Ile Val Leu Val Cys Phe Ser
 65 70 75 80
 Tyr Leu Trp Gly Ile Phe Pro Leu Arg Leu Leu Gly Leu Leu Leu Pro
 85 90 95
 Gln Gly Val Leu Thr Leu Arg Leu Met Arg Gly Pro Leu Pro Val Ser
 100 105 110
 Pro Ile Leu Ser Ser Arg Glu Val Leu Thr Pro Asp Ser
 115 120 125

<210> 810

<211> 240

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (77)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (195)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 810

Asp Pro Glu Arg Trp Lys His Leu Xaa Lys Val Thr Pro Pro Gly Ser
 1 5 10 15

Ser Val Ser Thr Thr Pro Val Gln Val Val Arg Leu Gln Ser Pro Gln
 20 25 30

Ser Gln Gly Ser Met Met Pro Ser Cys Asn Arg Ser Cys Ser Cys Ser

766

35	40	45
Arg Gly Pro Ser Val Glu Asp Gly Lys Trp Tyr Gly Val Arg Ser Tyr		
50	55	60
Leu His Leu Phe Tyr Glu Asp Cys Ala Gly Thr Ala Xaa Ser Asp Asp		
65	70	75
Pro Glu Gly Pro Pro Val Leu Cys Pro Arg Arg Pro Trp Pro Ser Leu		
85	90	95
Cys Trp Lys Ile Ser Leu Ser Ser Gly Thr Leu Leu Leu Leu Gly		
100	105	110
Val Ala Ala Leu Thr Thr Gly Tyr Ala Val Pro Pro Lys Leu Glu Gly		
115	120	125
Ile Gly Glu Gly Glu Phe Leu Val Leu Asp Gln Arg Ala Ala Asp Tyr		
130	135	140
Asn Gln Ala Leu Gly Thr Cys Arg Leu Ala Gly Thr Ala Leu Cys Val		
145	150	155
Ala Ala Gly Val Leu Leu Ala Ile Cys Leu Phe Trp Ala Met Ile Gly		
165	170	175
Trp Leu Ser Gln Asp Thr Lys Ala Glu Pro Leu Asp Pro Glu Ala Asp		
180	185	190
Ser His Xaa Glu Val Phe Gly Asp Glu Pro Glu Gln Gln Leu Ser Pro		
195	200	205
Ile Phe Arg Asn Ala Ser Gly Gln Ser Trp Phe Ser Pro Pro Ala Ser		
210	215	220
Pro Phe Gly Gln Ser Ser Val Gln Thr Ile Gln Pro Lys Arg Asp Ser		
225	230	235
		240

<210> 811

<211> 855

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (479)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (829)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 811

Thr	Asp	Arg	Lys	His	Arg	Lys	Ala	Phe	Leu	Glu	Ala	Arg	Gln	Ser	Leu
1				5					10					15	
Glu	Val	Lys	Met	Asn	Leu	Glu	Glu	Gln	Ser	Gln	Gln	Gln	Glu	Asn	Leu
			20					25					30		
Met	Leu	Ser	Ile	Leu	Pro	Lys	His	Val	Ala	Asp	Glu	Met	Leu	Lys	Asp
		35					40					45			
Met	Lys	Lys	Asp	Glu	Ser	Gln	Lys	Asp	Gln	Gln	Gln	Phe	Asn	Thr	Met
	50					55					60				
Tyr	Met	Tyr	Arg	His	Glu	Asn	Val	Ser	Ile	Leu	Phe	Ala	Asp	Ile	Val
65					70					75					80
Gly	Phe	Thr	Gln	Leu	Ser	Ser	Ala	Cys	Ser	Ala	Gln	Glu	Leu	Val	Lys
			85					90						95	
Leu	Leu	Asn	Glu	Leu	Phe	Ala	Arg	Phe	Asp	Lys	Leu	Ala	Ala	Lys	Tyr
		100						105					110		
His	Gln	Leu	Arg	Ile	Lys	Ile	Leu	Gly	Asp	Cys	Tyr	Tyr	Cys	Ile	Cys
	115					120						125			
Gly	Leu	Pro	Asp	Tyr	Arg	Glu	Asp	His	Ala	Val	Cys	Ser	Ile	Leu	Met
	130					135					140				
Gly	Leu	Ala	Met	Val	Glu	Ala	Ile	Ser	Tyr	Val	Arg	Glu	Lys	Thr	Lys
145				150						155					160
Thr	Gly	Val	Asp	Met	Arg	Val	Gly	Val	His	Thr	Gly	Thr	Val	Leu	Gly
			165						170					175	
Gly	Val	Leu	Gly	Gln	Lys	Arg	Trp	Gln	Tyr	Asp	Val	Trp	Ser	Thr	Asp
		180						185					190		
Val	Thr	Val	Ala	Asn	Lys	Met	Glu	Ala	Gly	Gly	Ile	Pro	Gly	Arg	Val
	195					200						205			
His	Ile	Ser	Gln	Ser	Thr	Met	Asp	Cys	Leu	Lys	Gly	Glu	Phe	Asp	Val
210						215					220				
Glu	Pro	Gly	Asp	Gly	Gly	Ser	Arg	Cys	Asp	Tyr	Leu	Glu	Glu	Lys	Gly

225		230		235		240
Ile Glu Thr Tyr	Leu Ile Ile Ala Ser Lys Pro Glu Val Lys Lys Thr					
	245		250		255	
Ala Thr Gln Asn Gly Leu Asn Gly Ser Ala Leu Pro Asn Gly Ala Pro						
	260		265		270	
Ala Ser Ser Lys Ser Ser Ser Pro Ala Leu Ile Glu Thr Lys Glu Pro						
	275		280		285	
Asn Gly Ser Ala His Ser Ser Gly Ser Thr Ser Glu Lys Pro Glu Glu						
	290		295		300	
Gln Asp Ala Gln Ala Asp Asn Pro Ser Phe Pro Asn Pro Arg Arg Arg						
305		310		315		320
Leu Arg Leu Gln Asp Leu Ala Asp Arg Val Val Asp Ala Ser Glu Asp						
	325		330		335	
Glu His Glu Leu Asn Gln Leu Leu Asn Glu Ala Leu Leu Glu Arg Glu						
	340		345		350	
Ser Ala Gln Val Val Lys Lys Arg Asn Thr Phe Leu Leu Ser Met Arg						
	355		360		365	
Phe Met Asp Pro Glu Met Glu Thr Arg Tyr Ser Val Glu Lys Glu Lys						
	370		375		380	
Gln Ser Gly Ala Ala Phe Ser Cys Ser Cys Val Val Leu Leu Cys Thr						
385		390		395		400
Ala Leu Val Glu Ile Leu Ile Asp Pro Trp Leu Met Thr Asn Tyr Val						
	405		410		415	
Thr Phe Met Val Gly Glu Ile Leu Leu Leu Ile Leu Thr Ile Cys Ser						
	420		425		430	
Leu Ala Ala Ile Phe Pro Arg Ala Phe Pro Lys Lys Leu Val Ala Phe						
	435		440		445	
Ser Thr Trp Ile Asp Arg Thr Arg Trp Ala Arg Asn Thr Trp Ala Met						
	450		455		460	
Leu Ala Ile Phe Ile Leu Val Met Ala Asn Val Val Asp Met Xaa Ser						
465		470		475		480
Cys Leu Gln Tyr Tyr Thr Gly Pro Ser Asn Ala Thr Ala Gly Met Glu						
	485		490		495	
Thr Glu Gly Ser Cys Leu Glu Asn Pro Lys Tyr Tyr Asn Tyr Val Ala						

500	505	510
Val Leu Ser Leu Ile Ala Thr Ile Met Leu Val Gln Val Ser His Met		
515	520	525
Val Lys Leu Thr Leu Met Leu Leu Val Ala Gly Ala Val Ala Thr Ile		
530	535	540
Asn Leu Tyr Ala Trp Arg Pro Val Phe Asp Glu Tyr Asp His Lys Arg		
545	550	555
Phe Arg Glu His Asp Leu Pro Met Val Ala Leu Glu Gln Met Gln Gly		
565	570	575
Phe Asn Pro Gly Leu Asn Gly Thr Asp Arg Leu Pro Leu Val Pro Ser		
580	585	590
Lys Tyr Ser Met Thr Val Met Val Phe Leu Met Met Leu Ser Phe Tyr		
595	600	605
Tyr Phe Ser Arg His Val Glu Lys Leu Ala Arg Thr Leu Phe Leu Trp		
610	615	620
Lys Ile Glu Val His Asp Gln Lys Glu Arg Val Tyr Glu Met Arg Arg		
625	630	635
Trp Asn Glu Ala Leu Val Thr Asn Met Leu Pro Glu His Val Ala Arg		
645	650	655
His Phe Leu Gly Ser Lys Lys Arg Asp Glu Glu Leu Tyr Ser Gln Thr		
660	665	670
Tyr Asp Glu Ile Gly Val Met Phe Ala Ser Leu Pro Asn Phe Ala Asp		
675	680	685
Phe Tyr Thr Glu Glu Ser Ile Asn Asn Gly Gly Ile Glu Cys Leu Arg		
690	695	700
Phe Leu Asn Glu Ile Ile Ser Asp Phe Asp Ser Leu Leu Asp Asn Pro		
705	710	715
Lys Phe Arg Val Ile Thr Lys Ile Lys Thr Ile Gly Ser Thr Tyr Met		
725	730	735
Ala Ala Ser Gly Val Thr Pro Asp Val Asn Thr Asn Gly Phe Ala Ser		
740	745	750
Ser Asn Lys Glu Asp Lys Ser Glu Arg Glu Arg Trp Gln His Leu Ala		
755	760	765
Asp Leu Ala Asp Phe Ala Leu Ala Met Lys Asp Thr Leu Thr Asn Ile		

770

770	775	780
Asn Asn Gln Ser Phe Asn Asn Phe Met Leu Arg Ile Gly Met Asn Lys		
785	790	795 800
Gly Gly Val Leu Ala Gly Val Ile Gly Ala Arg Lys Pro His Tyr Asp		
	805	810 815
Ile Trp Gly Asn Thr Val Asn Val Ala Ser Arg Met Xaa Val His Gly		
	820	825 830
Gly His Gly Gln His Ser Gly Gly Glu Gly Asn Pro Ser Ser Ser Ser		
	835	840 845
Glu Glu Leu Arg Val Ser Val		
850	855	

<210> 812

<211> 207

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 812

Arg Gln Lys Gly Ala Phe Leu Arg Xaa Ser Arg Arg Ala Ala Gly Leu
1 5 10 15

Leu Leu Leu Pro Pro Arg Ala Pro Ala Ala Met Phe Asn Arg Ala Val
20 25 30

Ser Arg Leu Ser Arg Lys Arg Pro Pro Ser Asp Ile His Asp Ser Asp
35 40 45

Gly Ser Ser Ser Ser Ser His Gln Ser Leu Lys Ser Thr Ala Lys Trp
50 55 60

Ala Ala Ser Leu Glu Asn Leu Leu Glu Asp Pro Glu Gly Val Lys Arg
65 70 75 80

Phe Arg Glu Phe Leu Lys Lys Glu Phe Ser Glu Glu Asn Val Leu Phe
85 90 95

Trp Leu Ala Cys Glu Asp Phe Lys Lys Met Gln Asp Lys Thr Gln Met
100 105 110

771

Gln Glu Lys Ala Lys Glu Ile Tyr Met Thr Phe Leu Ser Ser Lys Ala
 115 120 125
 Ser Ser Gln Val Asn Val Glu Gly Gln Ser Arg Leu Asn Glu Lys Ile
 130 135 140
 Leu Glu Glu Pro His Pro Leu Met Phe Gln Lys Leu Gln Asp Gln Ile
 145 150 155 160
 Phe Asn Leu Met Lys Tyr Asp Ser Tyr Ser Arg Phe Leu Lys Ser Asp
 165 170 175
 Leu Phe Leu Lys His Lys Arg Thr Glu Glu Glu Glu Glu Asp Leu Pro
 180 185 190
 Asp Ala Gln Thr Ala Ala Lys Arg Ala Ser Arg Ile Tyr Asn Thr
 195 200 205

<210> 813
 <211> 233
 <212> PRT
 <213> Homo sapiens

<400> 813
 Ala Arg Ser Arg Ala Gly Gly Gly Gly Trp Gly Arg Ile Ala Gly Glu
 1 5 10 15
 Ile Thr Arg Arg Gly Ser Arg Ala Arg Pro Arg Pro Gly Pro Gln Cys
 20 25 30
 Pro Pro Gly Arg Pro Gly Thr Ala Met Ile Lys Ala Ile Leu Ile Phe
 35 40 45
 Asn Asn His Gly Lys Pro Arg Leu Ser Lys Phe Tyr Gln Pro Tyr Ser
 50 55 60
 Glu Asp Thr Gln Gln Gln Ile Ile Arg Glu Thr Phe His Leu Val Ser
 65 70 75 80
 Lys Arg Asp Glu Asn Val Cys Asn Phe Leu Glu Gly Gly Leu Leu Ile
 85 90 95
 Gly Gly Ser Asp Asn Lys Leu Ile Tyr Arg His Tyr Ala Thr Leu Tyr
 100 105 110
 Phe Val Phe Cys Val Asp Ser Ser Glu Ser Glu Leu Gly Ile Leu Asp
 115 120 125
 Leu Ile Gln Val Phe Val Glu Thr Leu Asp Lys Cys Phe Glu Asn Val

772

130 135 140
 Cys Glu Leu Asp Leu Ile Phe His Val Asp Lys Val His Asn Ile Leu
 145 150 155 160
 Ala Glu Met Val Met Gly Gly Met Val Leu Glu Thr Asn Met Asn Glu
 165 170 175
 Ile Val Thr Gln Ile Asp Ala Gln Asn Lys Leu Glu Lys Ser Glu Ala
 180 185 190
 Gly Leu Ala Gly Ala Pro Ala Arg Ala Val Ser Ala Val Lys Asn Met
 195 200 205
 Asn Leu Pro Glu Ile Pro Arg Asn Ile Asn Ile Gly Asp Ile Ser Ile
 210 215 220
 Lys Val Pro Asn Leu Pro Ser Phe Lys
 225 230

<210> 814

<211> 353

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 814

Asn Leu Ile Leu Trp Arg Xaa Ala Met Gln Leu Glu Ile Gln Val Ala
 1 5 10 15
 Leu Asn Phe Ile Ile Ser Tyr Leu Tyr Asn Lys Leu Pro Arg Arg Arg
 20 25 30
 Val Asn Ile Phe Gly Glu Glu Leu Glu Arg Leu Leu Lys Lys Lys Tyr
 35 40 45
 Glu Gly His Trp Tyr Pro Glu Lys Pro Tyr Lys Gly Ser Gly Phe Arg
 50 55 60
 Cys Ile His Ile Gly Glu Lys Val Asp Pro Val Ile Glu Gln Ala Ser
 65 70 75 80
 Lys Glu Ser Gly Leu Asp Ile Asp Asp Val Arg Gly Asn Leu Pro Gln
 85 90 95

Asp Leu Ser Val Trp Ile Asp Pro Phe Glu Val Ser Tyr Gln Ile Gly
 100 105 110
 Glu Lys Gly Pro Val Lys Val Leu Tyr Val Asp Asp Asn Asn Glu Asn
 115 120 125
 Gly Cys Glu Leu Asp Lys Glu Ile Lys Asn Ser Phe Asn Pro Glu Ala
 130 135 140
 Gln Val Phe Met Pro Ile Ser Asp Pro Ala Ser Ser Val Ser Ser Ser
 145 150 155 160
 Pro Ser Pro Pro Phe Gly His Ser Ala Ala Val Ser Pro Thr Phe Met
 165 170 175
 Pro Arg Ser Thr Gln Pro Leu Thr Phe Thr Thr Ala Thr Phe Ala Ala
 180 185 190
 Thr Lys Phe Gly Ser Thr Lys Met Lys Asn Ser Gly Arg Ser Asn Lys
 195 200 205
 Val Ala Arg Thr Ser Pro Ile Asn Leu Gly Leu Asn Val Asn Asp Leu
 210 215 220
 Leu Lys Gln Lys Ala Ile Ser Ser Ser Met His Ser Leu Tyr Gly Leu
 225 230 235 240
 Gly Leu Gly Ser Gln Gln Gln Pro Gln Gln Gln Gln Pro Ala Gln
 245 250 255
 Pro Pro Pro Pro Pro Pro Pro Pro Gln Gln Gln Gln Gln Gln Lys Thr
 260 265 270
 Ser Ala Leu Ser Pro Asn Ala Lys Glu Phe Ile Phe Pro Asn Met Gln
 275 280 285
 Gly Gln Gly Ser Ser Thr Asn Gly Met Phe Pro Gly Asp Ser Pro Leu
 290 295 300
 Asn Leu Ser Pro Leu Gln Tyr Ser Asn Ala Phe Asp Val Phe Ala Ala
 305 310 315 320
 Tyr Gly Gly Leu Asn Glu Lys Ser Phe Val Asp Gly Leu Asn Phe Ser
 325 330 335
 Leu Asn Asn Met Gln Tyr Ser Asn Gln Gln Phe Gln Pro Val Met Ala
 340 345 350
 Asn

<210> 815
<211> 82
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (29)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 815
Leu Ser Ala Cys Phe Ala Tyr His Arg Asp Ile Ser Met Ala Val Pro
1 5 10 15
Pro Cys Arg Val Ala Tyr Gln Thr Asp Val Asp Cys Xaa Ile Ser Trp
20 25 30
Gln His Gln Ser Met Gly Cys Leu Thr Phe Trp Tyr Leu Ser Ser Asp
35 40 45
His Pro Tyr Pro Met Phe Ser Phe Lys His Tyr Pro Ala Ser Leu Phe
50 55 60
Ile Ile Arg Asn Ser Gly Pro Ser Val Trp Trp His Leu Glu Ser Phe
65 70 75 80
Val Pro

<210> 816
<211> 328
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (170)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (172)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (174)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (178)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (183)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (269)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (286)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 816

Phe	Thr	Val	Ser	Ser	Gly	Pro	Phe	Asn	Ile	Ile	Asn	Val	Ser	Leu	Ser
1				5				10					15		

Gly	Gly	Thr	Asn	Glu	Glu	Ile	Leu	Glu	Ser	Ile	Arg	Ala	Lys	Lys	Gly
			20					25					30		

Asp	Ile	Asp	Asn	Val	Lys	Ser	Pro	Thr	Gly	Glu	Glu	Thr	Glu	Lys	Asp
		35					40					45			

Lys	Asn	Glu	Thr	Glu	Asn	Asp	Ser	Lys	Asp	Ala	Glu	Lys	Asn	Arg	Glu
	50					55					60				

Glu	Phe	Glu	Asp	Gln	Ser	Leu	Glu	Lys	Asp	Ser	Asp	Asp	Lys	Thr	Pro
65					70				75						80

Asp	Asp	Asp	Pro	Glu	Gln	Gly	Lys	Ser	Glu	Val	Gly	Asp	Phe	Lys	Ser
				85					90					95	

Glu	Lys	Ser	Asn	Gly	Glu	Leu	Ser	Glu	Ser	Pro	Gly	Ala	Gly	Lys	Gly
			100					105					110		

Ala	Ser	Gly	Ser	Thr	Arg	Ile	Ile	Thr	Arg	Leu	Arg	Asn	Pro	Asp	Ser
		115					120					125			

Lys	Leu	Ser	Gln	Leu	Lys	Ser	Gln	Gln	Val	Ala	Ala	Ala	Ala	His	Glu
	130					135						140			

Ala	Asn	Lys	Leu	Phe	Lys	Glu	Gly	Lys	Glu	Val	Leu	Val	Val	Asn	Ser
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

145		150		155		160
Gln Gly Glu Ile Ser Arg Leu Ser Thr Xaa Lys Xaa Val Xaa Met Lys						
	165			170		175
Gly Xaa Ile Asn Asn Tyr Xaa Lys Leu Gly Gln Glu Gly Lys Tyr Arg						
	180		185			190
Val Tyr His Asn Gln Tyr Ser Thr Asn Ser Phe Ala Leu Asn Lys His						
	195		200			205
Gln His Arg Glu Asp His Asp Lys Arg Arg His Leu Ala His Lys Phe						
	210		215			220
Cys Leu Thr Pro Ala Gly Glu Phe Lys Trp Asn Gly Ser Val His Gly						
	225		230		235	240
Ser Lys Val Leu Thr Ile Ser Thr Leu Arg Leu Thr Ile Thr Gln Leu						
		245		250		255
Glu Asn Asn Ile Pro Ser Ser Phe Leu His Pro Asn Xaa Ala Ser His						
	260		265			270
Arg Ala Asn Trp Ile Lys Ala Val Gln Met Cys Ser Lys Xaa Arg Glu						
	275		280			285
Phe Ala Leu Ala Leu Ala Ile Leu Glu Cys Ala Val Lys Pro Val Val						
	290		295			300
Met Leu Pro Ile Trp Arg Glu Ser Leu Gly His Thr Ser Phe Leu Pro						
	305		310		315	320
Leu Ser His Asn His Val His Gln						
		325				

<210> 817

<211> 290

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (210)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (213)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (271)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (290)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 817

Glu Leu Ile Leu Glu Pro Lys Asp Leu Tyr Ile Asp Arg Pro Leu Pro
 1 5 10 15

Tyr Leu Ile Gly Ser Lys Leu Phe Met Glu Gln Glu Asp Val Gly Leu
 20 25 30

Gly Glu Leu Ser Ser Glu Glu Gly Ser Val Gly Ser Asp Arg Gly Ser
 35 40 45

Ile Val Asp Thr Glu Glu Glu Lys Glu Glu Glu Glu Ser Asp Glu Asp
 50 55 60

Phe Ala His His Ser Asp Asn Glu Gln Asn Gln His Thr Thr Gln Met
 65 70 75 80

Ser Asp Glu Glu Glu Asp Asp Asp Gly Cys Asp Leu Phe Ala Asp Ser
 85 90 95

Glu Lys Glu Glu Glu Asp Ile Glu Asp Ile Glu Glu Asn Thr Arg Pro
 100 105 110

Lys Arg Ser Arg Pro Thr Ser Phe Ala Asp Glu Leu Ala Ala Arg Ile
 115 120 125

Lys Gly Asp Ala Met Gly Arg Val Asp Glu Glu Pro Thr Thr Leu Pro
 130 135 140

Ser Gly Glu Ala Lys Pro Arg Lys Thr Leu Lys Glu Lys Lys Glu Arg
 145 150 155 160

Arg Thr Pro Ser Asp Asp Glu Glu Asp Asn Leu Phe Ala Pro Pro Lys
 165 170 175

Leu Thr Asp Glu Asp Phe Ser Pro Phe Gly Ser Gly Gly Gly Leu Phe
 180 185 190

Ser Gly Gly Lys Gly Leu Phe Asp Asp Glu Asp Glu Glu Ser Asp Leu
 195 200 205

778

Phe Xaa Glu Ala Xaa Gln Asp Arg Gln Ala Gly Ala Ser Val Lys Glu
210 215 220

Glu Ser Ser Ser Ser Lys Pro Gly Lys Lys Ile Pro Ala Gly Ala Val
225 230 235 240

Ser Val Phe Leu Gly Asp Thr Asp Val Phe Gly Ala Ala Ser Val Pro
245 250 255

Ser Leu Lys Glu Pro Gln Lys Pro Glu Gln Pro Thr Pro Arg Xaa Ser
260 265 270

Pro Tyr Gly Pro Pro Pro Thr Gly Leu Phe Asp Asp Asp Asp Gly Asp
275 280 285

Asp Xaa
290

<210> 818

<211> 117

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 818

Lys Arg Gln Leu Ala Val Gln Ser Leu Ala Phe Asn Leu Lys Xaa Lys
1 5 10 15

Val Phe Cys Glu Leu Phe Pro Glu Val Val Glu Val Arg Lys Thr Glu
20 25 30

Val Gly Phe Ala Phe Pro Cys Val Lys Thr Leu Glu Phe His Leu Phe
35 40 45

Pro Lys Ser Lys Ile Cys Val Leu Lys Leu Gln Thr Ser Pro Gly Asp
50 55 60

Gly Ser Ser Pro Pro Gly Ala Pro Arg Gln Gly Arg Gln Lys Ala Trp
65 70 75 80

Ala Leu Gly Gly Gly Leu Arg Thr Ala Val Leu Val Gly Arg Gly Leu
85 90 95

Gly Leu Ser His Arg Gly Val Glu Leu Val Val Leu Ser Ser Gln Leu
100 105 110

Gly Gly Val Trp Gly
115

<210> 819

<211> 157

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (130)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 819

Pro Gly Val Cys Cys Ser Ala Gly Ala Ser Phe Arg Arg Gly Ala Asp
1 5 10 15

Phe Asp Ser Trp Gly Gln Leu Val Glu Ala Ile Asp Xaa Tyr Gln Ile
20 25 30

Leu Ala Arg His Leu Gln Lys Glu Ala Gln Ala Gln His Asn Asn Ser
35 40 45

Glu Phe Thr Glu Glu Gln Lys Lys Thr Ile Gly Lys Ile Ala Thr Cys
50 55 60

Leu Gly Ile Ala Ser Ala Ala Leu Gln Ser Thr Gln Ser Gln Glu Glu
65 70 75 80

Phe Lys Leu Glu Asp Leu Lys Lys Leu Glu Pro Ile Leu Lys Asn Ile
85 90 95

Leu Thr Tyr Asn Lys Glu Phe Pro Phe Asp Val Gln Pro Val Pro Leu
100 105 110

Arg Arg Phe Trp His Leu Val Lys Lys Arg Ile Trp Glu Phe Gly Arg
115 120 125

Arg Xaa Lys Lys Arg Val Val Leu Gly Ala Gly Ser Pro Asp Ser Phe
130 135 140

Ser Cys Leu Glu Phe Pro Gly Thr Phe Ile Tyr Pro Arg
145 150 155

780

<210> 820

<211> 77

<212> PRT

<213> Homo sapiens

<400> 820

Arg Glu Thr Ala Cys Cys Gly Arg Asp Ala Arg Gly Ala Ala Pro Ala
1 5 10 15

Ala Met Ala Val Thr Ala Leu Ala Ala Arg Thr Trp Leu Gly Val Trp
20 25 30

Gly Val Arg Thr Met Gln Ala Arg Gly Phe Gly Ser Asp Gln Ser Glu
35 40 45

Asn Val Asp Arg Gly Ala Gly Ser Ile Arg Glu Ala Gly Gly Ala Phe
50 55 60

Gly Lys Arg Glu Gln Ala Glu Glu Glu Arg Tyr Phe Arg
65 70 75

<210> 821

<211> 74

<212> PRT

<213> Homo sapiens

<400> 821

His Leu Gly Phe Ile Gly Thr Lys Asn Lys Ser Tyr Thr Ser Cys Thr
1 5 10 15

Leu Phe Phe Glu Phe Leu Leu Met Arg Asn Ile His Phe Cys Ile Asp
20 25 30

Ser Asp Phe Lys Ile Ala Leu Ser Ala Phe Lys Gly Phe Leu Thr Ser
35 40 45

Arg Ala His Gln Asn Cys Gln Val Pro Ser Gly Ser Glu Ala Val Ser
50 55 60

Leu Gly Gly Leu Trp His Gln His Phe His
65 70

<210> 822

<211> 451

<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (49)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (178)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (205)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (220)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (278)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (393)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (435)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 822
Arg Pro Leu Pro Thr Ser Thr Asn Val Lys Thr Leu Thr Gly Phe Gly
1 5 10 15

Pro Gly Leu Ala Met Glu Thr Ala Leu Arg Ser Pro Asp Arg Pro Glu
20 25 30

Cys Ile Arg Leu Tyr Ala Pro Pro Phe Ile Leu Ala Pro Val Lys Asp
35 40 45

Xaa Gln Thr Glu Leu Gly Glu Thr Phe Gly Glu Ala Gly Gln Lys Tyr
50 55 60

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Asn Val Leu Phe Val Gly Tyr Cys Leu Ser His Asp Gln Arg Trp Ile
 65              70              75              80

Leu Ala Ser Cys Thr Asp Leu Tyr Gly Glu Leu Leu Glu Thr Cys Ile
              85              90              95

Ile Asn Ile Asp Val Pro Asn Arg Ala Arg Arg Lys Lys Ser Ser Ala
      100              105              110

Arg Lys Phe Gly Leu Gln Lys Leu Trp Glu Trp Cys Leu Gly Leu Val
      115              120              125

Gln Met Ser Ser Leu Pro Trp Arg Val Val Ile Gly Arg Leu Gly Arg
      130              135              140

Ile Gly His Gly Glu Leu Lys Asp Trp Ser Cys Leu Leu Ser Arg Arg
      145              150              155              160

Asn Leu Gln Ser Leu Ser Lys Arg Leu Lys Asp Met Cys Arg Met Cys
      165              170              175

Gly Xaa Ser Ala Ala Asp Ser Pro Ser Ile Leu Ser Ala Cys Leu Val
      180              185              190

Ala Met Glu Pro Gln Gly Ser Phe Val Ile Met Pro Xaa Ser Val Ser
      195              200              205

Thr Gly Ser Val Phe Gly Arg Ser Thr Thr Leu Xaa Met Gln Thr Ser
      210              215              220

Gln Leu Asn Thr Pro Gln Asp Thr Ser Cys Thr His Ile Leu Val Phe
      225              230              235              240

Pro Thr Ser Ala Ser Val Gln Val Ala Ser Ala Thr Tyr Thr Thr Glu
      245              250              255

Asn Leu Asp Leu Ala Phe Asn Pro Asn Asn Asp Gly Ala Asp Gly Met
      260              265              270

Gly Ile Phe Asp Leu Xaa Asp Thr Gly Asp Asp Leu Asp Pro Asp Ile
      275              280              285

Ile Asn Ile Leu Pro Ala Ser Pro Thr Gly Ser Pro Val His Ser Pro
      290              295              300

Gly Ser His Tyr Pro His Gly Gly Asp Ala Gly Lys Gly Gln Ser Thr
      305              310              315              320

Asp Arg Leu Leu Ser Thr Glu Pro His Glu Glu Val Pro Asn Ile Leu
      325              330              335

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783

Gln Gln Pro Leu Ala Leu Gly Tyr Phe Val Ser Thr Ala Lys Ala Gly
 340 345 350
 Pro Leu Pro Asp Trp Phe Trp Ser Ala Cys Pro Gln Ala Gln Tyr Gln
 355 360 365
 Cys Pro Leu Phe Leu Lys Ala Ser Leu His Leu His Val Pro Ser Val
 370 375 380
 Gln Ser Asp Glu Leu Leu His Ser Xaa His Ser His Pro Leu Asp Ser
 385 390 395 400
 Asn Gln Thr Ser Asp Val Leu Arg Phe Val Leu Glu Gln Tyr Asn Ala
 405 410 415
 Leu Ser Trp Leu Thr Cys Asp Pro Ala Thr Gln Asp Arg Arg Ser Cys
 420 425 430
 Leu Pro Xaa His Phe Val Val Leu Asn Gln Leu Tyr Asn Phe Ile Met
 435 440 445
 Asn Met Leu
 450

<210> 823
 <211> 211
 <212> PRT
 <213> Homo sapiens

<400> 823
 Ile Leu Ile Ala Thr Asp Val Ala Ser Arg Gly Leu Asp Val Glu Asp
 1 5 10 15
 Val Lys Phe Val Ile Asn Tyr Asp Tyr Pro Asn Ser Ser Glu Asp Tyr
 20 25 30
 Val His Arg Ile Gly Arg Thr Ala Arg Ser Thr Asn Lys Gly Thr Ala
 35 40 45
 Tyr Thr Phe Phe Thr Pro Gly Asn Leu Lys Gln Ala Arg Glu Leu Ile
 50 55 60
 Lys Val Leu Glu Glu Ala Asn Gln Ala Ile Asn Pro Lys Leu Met Gln
 65 70 75 80
 Leu Val Asp His Arg Gly Gly Gly Gly Gly Gly Gly Arg Ser Arg
 85 90 95
 Tyr Arg Thr Thr Ser Ser Ala Asn Asn Pro Asn Leu Met Tyr Gln Asp

784

100	105	110
Glu Cys Asp Arg Ser Phe Glu Glu Ser Arg Met Val Ala Gly Glu Thr		
115	120	125
Leu Gln Ala Ile Gly Ile Val Val Lys Pro Ile Glu Leu Val Met Leu		
130	135	140
Met Ala Val Ala Met Glu Val Gln Ile Leu Pro Leu Glu His Lys Gln		
145	150	155
Ala Asn Thr Pro Met Val Lys Ala Pro Met Gly Gln Leu Leu Met Ala		
165	170	175
Pro Val Ala Ile Gln Leu Lys Asn Met Val Leu Ala Leu Met Glu Leu		
180	185	190
Val Ala Pro Pro Gln Leu Gly Glu Val His Arg Ala Leu Ala Ser Ser		
195	200	205
Leu Val Gly		
210		

<210> 824
 <211> 22
 <212> PRT
 <213> Homo sapiens

<400> 824
 Gly Arg Pro Thr Arg Pro Gly Val Ser Ser Cys Leu Pro Gly Trp Ser
 1 5 10 15

Arg Thr Pro Gly Leu Lys
 20

<210> 825
 <211> 393
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (96)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 825
 Thr Thr Val Thr Arg Cys Ser Pro Thr Val Ala Phe Val Glu Phe Pro

785

1	5	10	15
Ser Ser Pro Gln Leu Lys Asn Asp Val Ser Glu Glu Lys Asp Gln Lys	20	25	30
Lys Pro Glu Asn Glu Met Ser Gly Lys Val Glu Leu Val Leu Ser Gln	35	40	45
Lys Val Val Lys Pro Lys Ser Pro Glu Pro Glu Ala Thr Leu Thr Phe	50	55	60
Pro Phe Leu Asp Lys Met Pro Glu Ala Asn Gln Leu His Leu Pro Asn	65	70	75
Leu Asn Ser Gln Val Asp Ser Pro Ser Ser Glu Lys Ser Pro Val Xaa	85	90	95
Thr Pro Phe Lys Phe Trp Ala Trp Asp Pro Glu Glu Glu Arg Arg Arg	100	105	110
Gln Glu Lys Trp Gln Gln Glu Gln Glu Arg Leu Leu Gln Glu Arg Tyr	115	120	125
Gln Lys Glu Gln Asp Lys Leu Lys Glu Glu Trp Glu Lys Ala Gln Lys	130	135	140
Glu Val Glu Glu Glu Glu Arg Arg Tyr Tyr Glu Glu Glu Arg Lys Ile	145	150	155
Ile Glu Asp Thr Val Val Pro Phe Thr Val Ser Ser Ser Ser Ala Asp	165	170	175
Gln Leu Ser Thr Ser Ser Ser Met Thr Glu Gly Ser Gly Thr Met Asn	180	185	190
Lys Ile Asp Leu Gly Asn Cys Gln Asp Glu Lys Gln Asp Arg Arg Trp	195	200	205
Lys Lys Ser Phe Gln Gly Asp Asp Ser Asp Leu Leu Leu Lys Thr Arg	210	215	220
Glu Ser Asp Arg Leu Glu Glu Lys Gly Ser Leu Thr Glu Gly Ala Leu	225	230	235
Ala His Ser Gly Asn Pro Val Ser Lys Gly Val His Glu Asp His Gln	245	250	255
Leu Asp Thr Glu Ala Gly Ala Pro His Cys Gly Thr Asn Pro Gln Leu	260	265	270
Ala Gln Asp Pro Ser Gln Asn Gln Gln Thr Ser Asn Pro Thr His Ser			

786

275	280	285
Ser Glu Asp Val Lys Pro Lys Thr Leu Pro Leu Asp Lys Ser Ile Asn		
290	295	300
His Gln Ile Glu Ser Pro Ser Glu Arg Arg Lys Ser Ile Ser Gly Lys		
305	310	315
Lys Leu Cys Ser Ser Cys Gly Leu Pro Leu Gly Lys Gly Ala Ala Met		
	325	330
Ile Ile Glu Thr Leu Asn Leu Tyr Phe His Ile Gln Cys Phe Arg Cys		
	340	345
Gly Ile Cys Lys Gly Gln Leu Gly Asp Ala Val Ser Gly Thr Asp Val		
	355	360
Arg Ile Arg Asn Gly Leu Leu Asn Cys Asn Asp Cys Tyr Met Arg Ser		
	370	375
Arg Ser Ala Gly Gln Pro Thr Thr Leu		
385	390	

<210> 826

<211> 265

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (72)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 826

His Ser Pro Val Pro Gln Ser Leu Pro Ala Arg Cys Ala Ala Ala Glu		
1	5	10
Ala Met Arg Leu Ile Gln Asn Met Cys Thr Ile Ala Glu Tyr Pro Ala		
	20	25
Pro Gly Asn Ala Ala Ala Ser Asp Cys Cys Val Gly Ala Ala Gly Arg		
	35	40
Arg Leu Val Lys Ile Ala Val Val Gly Ala Ser Gly Val Gly Lys Thr		
	50	55
Ala Leu Val Val Arg Phe Leu Xaa Lys Arg Phe Ile Gly Asp Tyr Glu		
	65	70
		75
		80

Gly Ala Ile Ile Glu Asn Met Ser Thr Lys Lys Leu Cys Ile Val Gly
 20 25 30

Gly Ile Leu Leu Val Phe Gln Ile Ile Ala Phe Leu Val Gly Gly Leu
 35 40 45

Ile Ala Pro Gly Pro Thr Thr Ala Val Ser Tyr Met Ser Val Lys Cys
 50 55 60

Val Asp Ala Arg Lys Asn His His Lys Thr Lys Trp Phe Val Pro Trp
 65 70 75 80

Gly Pro Asn His Cys Asp Lys Ile Arg Asp Ile Glu Glu Ala Ile Pro
 85 90 95

Arg Glu Ile Glu Ala Asn Asp Ile Val Phe Ser Val His Ile Pro Leu
 100 105 110

Pro His Met Glu Met Ser Pro Trp Phe Gln Phe Met Leu Phe Ile Leu
 115 120 125

Gln Leu Asp Ile Ala Phe Lys Leu Asn Asn Gln Ile Arg Glu Asn Ala
 130 135 140

Glu Val Ser Met Asp Val Ser Leu Ala Tyr Arg Asp Asp Ala Phe Ala
 145 150 155 160

Glu Trp Thr Glu Met Ala His Glu Arg Val Pro Arg Lys Leu Lys Cys
 165 170 175

Thr Phe Thr Ser Pro Lys Thr Pro Glu His Glu Gly Arg Tyr Tyr Glu
 180 185 190

Cys Asp Val Leu Pro Phe Met Glu Ile Gly Ser Val Ala His Lys Phe
 195 200 205

Tyr Leu Leu Asn Ile Arg Leu Pro Val Asn Glu Lys Lys Lys Ile Asn
 210 215 220

Val Gly Ile Gly Glu Ile Lys Asp Ile Arg Leu Val Gly Ile His Gln
 225 230 235 240

Asn Gly Gly Phe Thr Lys Val Trp Phe Ala Met Lys Thr Phe Leu Thr
 245 250 255

Pro Ser Ile Phe Ile Ile Met Val Trp Tyr Trp Arg Arg Ile Thr Met
 260 265 270

Met Ser Arg Pro Pro Val Leu Leu Glu Lys Val Ile Phe Ala Leu Gly
 275 280 285

Ile	Ser	Met	Thr	Phe	Ile	Asn	Ile	Pro	Val	Glu	Trp	Phe	Ser	Ile	Gly	290	295	300	
Phe	Asp	Trp	Thr	Trp	Met	Leu	Leu	Phe	Gly	Asp	Ile	Arg	Gln	Gly	Ile	305	310	315	320
Phe	Tyr	Ala	Met	Leu	Leu	Ser	Phe	Trp	Ile	Ile	Phe	Cys	Gly	Glu	His	325	330	335	
Met	Met	Asp	Gln	His	Glu	Arg	Asn	His	Ile	Ala	Gly	Tyr	Trp	Lys	Gln	340	345	350	
Val	Gly	Pro	Ile	Ala	Val	Gly	Ser	Phe	Cys	Leu	Phe	Ile	Phe	Asp	Met	355	360	365	
Cys	Glu	Arg	Gly	Val	Gln	Leu	Thr	Asn	Pro	Phe	Tyr	Ser	Ile	Trp	Thr	370	375	380	
Thr	Asp	Ile	Gly	Thr	Glu	Leu	Ala	Met	Ala	Phe	Ile	Ile	Val	Ala	Gly	385	390	395	400
Ile	Cys	Leu	Cys	Leu	Tyr	Phe	Leu	Phe	Leu	Cys	Phe	Met	Val	Phe	Gln	405	410	415	
Val	Phe	Arg	Asn	Ile	Ser	Gly	Lys	Gln	Ser	Ser	Leu	Pro	Ala	Met	Ser	420	425	430	
Lys	Val	Arg	Arg	Leu	His	Tyr	Glu	Gly	Leu	Ile	Phe	Arg	Phe	Lys	Phe	435	440	445	
Leu	Met	Leu	Ile	Thr	Leu	Ala	Cys	Ala	Ala	Met	Thr	Val	Ile	Phe	Phe	450	455	460	
Ile	Val	Ser	Gln	Val	Thr	Glu	Gly	His	Trp	Lys	Trp	Gly	Gly	Xaa	Thr	465	470	475	480
Val	Gln	Val	Asn	Ser	Ala	Phe	Phe	Thr	Gly	Ile	Tyr	Gly	Met	Trp	Asn	485	490	495	
Leu	Tyr	Val	Phe	Ala	Leu	Met	Phe	Leu	Tyr	Ala	Pro	Ser	His	Lys	Asn	500	505	510	
Tyr	Gly	Glu	Asp	Gln	Ser	Asn	Gly	Asp	Leu	Gly	Val	His	Ser	Gly	Glu	515	520	525	
Glu	Leu	Gln	Leu	Thr	Thr	Thr	Ile	Thr	His	Val	Asp	Gly	Pro	Thr	Glu	530	535	540	
Ile	Tyr	Lys	Leu	Thr	Arg	Lys	Glu	Ala	Gln	Glu						545	550	555	

790

<210> 828

<211> 292

<212> PRT

<213> Homo sapiens

<400> 828

Leu Glu Gly Gly Thr Met Gln Glu Leu His Leu Leu Trp Trp Ala Leu
1 5 10 15

Leu Leu Gly Leu Ala Gln Ala Cys Pro Glu Pro Cys Asp Cys Gly Glu
20 25 30

Lys Tyr Gly Phe Gln Ile Ala Asp Cys Ala Tyr Arg Asp Leu Glu Ser
35 40 45

Val Pro Pro Gly Phe Pro Ala Asn Val Thr Thr Leu Ser Leu Ser Ala
50 55 60

Asn Arg Leu Pro Gly Leu Pro Glu Gly Ala Phe Arg Glu Val Pro Leu
65 70 75 80

Leu Gln Ser Leu Trp Leu Ala His Asn Glu Ile Arg Thr Val Ala Ala
85 90 95

Gly Ala Leu Ala Ser Leu Ser His Leu Lys Ser Leu Asp Leu Ser His
100 105 110

Asn Leu Ile Ser Asp Phe Ala Trp Ser Asp Leu His Asn Leu Ser Ala
115 120 125

Leu Gln Leu Leu Lys Met Asp Ser Asn Glu Leu Thr Phe Ile Pro Arg
130 135 140

Asp Ala Phe Arg Ser Leu Arg Ala Leu Arg Ser Leu Gln Leu Asn His
145 150 155 160

Asn Arg Leu His Thr Leu Ala Glu Gly Thr Phe Thr Pro Leu Thr Ala
165 170 175

Leu Ser His Leu Gln Ile Asn Glu Asn Pro Phe Asp Cys Thr Cys Gly
180 185 190

Ile Val Trp Leu Lys Thr Trp Ala Leu Thr Thr Ala Val Ser Ile Pro
195 200 205

Glu Gln Asp Asn Ile Ala Cys Thr Ser Pro His Val Leu Lys Gly Thr
210 215 220

791

Pro Leu Ser Arg Leu Pro Pro Leu Pro Cys Ser Ala Pro Ser Val Gln
 225 230 235 240

Leu Ser Tyr Gln Pro Ser Gln Asp Gly Ala Glu Leu Arg Pro Gly Phe
 245 250 255

Val Leu Ala Leu His Cys Asp Val Asp Gly Gln Pro Ala Pro Ala Ala
 260 265 270

Ser Leu Ala His Pro Asp Thr Gln Trp His Cys Gly Asp His Gln Pro
 275 280 285

Gln Arg Gly His
 290

<210> 829

<211> 85

<212> PRT

<213> Homo sapiens

<400> 829

Lys Thr Gly Lys Arg Trp His Leu Gln Gly Asn Thr Arg Ala Ala Gln
 1 5 10 15

Lys Ser Cys Trp Asp Glu Glu Leu Gln Thr Cys Val Val Asp Phe Leu
 20 25 30

Ala Phe Cys Leu Phe Tyr Ser Gln Gly Trp Gly Ile Thr Thr Lys Glu
 35 40 45

Val Val Phe Trp Pro Gly Val Val Ala His Ala Cys Asn Pro Ser Thr
 50 55 60

Leu Gly Gly Arg Gly Arg Val Asp His Lys Val Arg Arg Ser Arg Pro
 65 70 75 80

Ser Trp Leu Thr Arg
 85

<210> 830

<211> 48

<212> PRT

<213> Homo sapiens

<400> 830

Asp Gly Ala Cys Ser Val Ala Gln Ala Gly Val Pro Trp His Asp Leu
 1 5 10 15

792

Gly Ser Leu Gln Ala Pro Pro Pro Gly Phe Thr Pro Phe Ser Cys Leu
20 25 30
Ser Leu Pro Ser Ser Trp Glu Tyr Arg Arg Pro Pro Pro Arg Leu Gly
35 40 45

<210> 831
<211> 47
<212> PRT
<213> Homo sapiens

<400> 831
Ala Thr Pro Gly Leu Phe Arg Ile Phe Ser Arg Asp Gly Phe Pro His
1 5 10 15
Val Gly Gln Ala Gly Leu Glu Leu Leu Thr Ser Ser Asp Pro Pro Gly
20 25 30
Ser Ala Tyr Arg Ser Ala Glu Ile Pro Gly Val Ser His Arg Ala
35 40 45

<210> 832
<211> 28
<212> PRT
<213> Homo sapiens

<400> 832
Ser Ile Arg Leu Gly Leu Leu Lys Cys Arg Asp Tyr Arg His Tyr Pro
1 5 10 15
Leu Cys Pro Val Thr Ile Glu Ile Ile Thr Leu Gln
20 25

<210> 833
<211> 22
<212> PRT
<213> Homo sapiens

<400> 833
Phe Cys Ile Ser Arg Asp Gly Val Ser Pro Cys Trp Pro Gly Trp Ser
1 5 10 15

Gln Thr Pro Gly Leu Lys
20

<210> 834

<211> 52

<212> PRT

<213> Homo sapiens

<220>

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<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 834

Ser Gln Leu Leu Gly Xaa Leu Arg Gln Glu Asn Arg Leu Asn Pro Gly
1 5 10 15

Gly Gly Asp Xaa Ser Glu Pro Arg Ser His His Cys Thr Pro Val Trp
20 25 30

Gln Gln Arg Gln Asp Ser Ile Ser Lys Arg Lys Glu Lys Lys Thr Leu
35 40 45

Xaa Leu Tyr Ser
50

<210> 835

<211> 86

<212> PRT

<213> Homo sapiens

<220>

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<222> (6)

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<223> Xaa equals any of the naturally occurring L-amino acids

<400> 835

795

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Asn Ser Val Ser Thr Xaa Asp Thr Lys Asn Ser Gln Ala Trp Xaa Gln
 1             5             10             15

Ala Pro Val Ile Pro Ala Thr Arg Glu Ala Lys Ala Gly Glu Leu Leu
          20             25             30

Glu Leu Arg Gly Trp Arg Leu Gln Xaa Val Glu Ile Val Pro Leu His
          35             40             45

Ser Ser Leu Gly Asn Arg Ala Arg Leu Cys Leu Xaa Lys Lys Xaa Xaa
          50             55             60

Xaa Xaa Xaa Glu Lys Gln His Xaa Gly Val Ser Val Asn Leu Ser Ser
          65             70             75             80

Ala Ala Leu Leu Ile Xaa
          85

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<210> 836

<211> 46

<212> PRT

<213> Homo sapiens

<220>

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<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 836

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Leu Leu Glu Xaa Phe Xaa Ala His Arg Pro Gln Trp Glu Gly Val Val
 1             5             10             15

Phe Pro Arg Glu Ser Val Thr Asp His Val Asn Xaa Leu Thr Pro Leu
          20             25             30

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796

Val Lys Pro Val Thr Glu Leu Tyr Leu Xaa Phe Ser Ser Leu
 35 40 45

<210> 837

<211> 129

<212> PRT

<213> Homo sapiens

<220>

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<222> (77)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (125)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 837

Ile Ala Asn Ile Arg Asn Glu Arg Val Asp Ile Thr Thr Asp Pro Met
 1 5 10 15

Asp Ile Arg Arg Ile Ile Lys Glu Cys Ser Glu Gln Leu Tyr Ala His
 20 25 30

Ile Phe Asp Asn Leu Asp Glu Met Glu Gln Val Leu Glu Arg His Asn
 35 40 45

Leu Pro Lys Leu Thr Gln Glu Glu Ile Asp His Leu Asn Arg Pro Ile
 50 55 60

Ser Ile Leu Lys Phe Glu Ser Ile Ile Asn Asn Phe Xaa Lys Gln Lys
 65 70 75 80

Ala Leu Gly Pro Asp Val Phe Ala Gly Glu Phe Tyr Gln Thr Tyr Lys
 85 90 95

Glu Asp Ile Ile Pro Ile Ile Tyr Asn Leu Phe Trp Arg Ile Glu Ala
 100 105 110

Glu Gly Asn Thr Phe Trp Leu Ile Leu Gly Gly Gln Xaa Tyr Ser Asn
 115 120 125

Thr

<210> 838
<211> 76
<212> PRT
<213> Homo sapiens

<220>
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<222> (15)
<223> Xaa equals any of the naturally occurring L-amino acids

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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (60)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 838
Tyr Thr Leu Leu Glu Leu Glu Leu Pro Arg Leu Leu Ala Pro Xaa Leu
1 5 10 15
Pro Ser Asn Gly Ser Ser Leu Lys Asp Leu Lys Trp Thr His Ser Asn
20 25 30
Tyr Arg Ala Ser Lys Glu Ser Cys Ile Val Ile Phe Arg His Tyr Leu
35 40 45
Pro Gly Ser Gly Met Gly Asn Leu Arg Xaa Cys Xaa Leu Pro Trp Met
50 55 60
Trp Glu Pro Phe Leu Arg Ser Leu Ser Gly Ile Gly
65 70 75

<210> 839
<211> 102
<212> PRT
<213> Homo sapiens

<220>
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<222> (52)
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<220>
<221> SITE
<222> (60)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (67)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (100)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 839

Thr	Thr	Ile	Arg	Ile	Ser	Ile	Thr	Ser	Glu	Arg	Ser	Thr	Pro	Leu	Thr
1				5					10					15	

Thr	Leu	Leu	Val	Ser	Thr	Thr	Leu	Pro	Thr	Ser	Phe	Pro	Gly	Ala	Ser
			20					25					30		

Ile	Ala	Ser	Thr	Pro	Pro	Leu	Asp	Thr	Ser	Thr	Thr	Phe	Thr	Pro	Ser
		35					40					45			

Thr	Asp	Thr	Xaa	Ser	Thr	Pro	Thr	Ile	Pro	Val	Xaa	Thr	Thr	Ile	Ser
	50					55					60				

Val	Ser	Xaa	Ile	Thr	Glu	Gly	Ser	Thr	Pro	Gly	Thr	Thr	Ile	Phe	Ile
65					70					75				80	

Pro	Ser	Thr	Pro	Val	Thr	Ser	Ser	Thr	Ala	Asp	Asp	Phe	Pro	Ala	Thr
				85					90					95	

Thr	Gly	Ala	Xaa	Ser	Thr
				100	

<210> 840

<211> 81

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (72)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (75)

<223> Xaa equals any of the naturally occurring L-amino acids

799

<220>

<221> SITE

<222> (76)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (79)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 840

Pro	Arg	Ser	Pro	Ser	Gly	Ser	Ala	Met	Pro	Cys	Ser	Glu	Glu	Thr	Pro
1				5					10					15	

Ala	Ile	Ser	Pro	Ser	Lys	Arg	Ala	Arg	Pro	Ala	Glu	Val	Gly	Gly	Met
			20					25					30		

Gln	Leu	Arg	Phe	Ala	Arg	Leu	Ser	Glu	His	Ala	Thr	Ala	Pro	Thr	Arg
		35					40					45			

Gly	Ser	Ala	Arg	Ala	Ala	Gly	Tyr	Asp	Leu	Tyr	Ser	Ala	Tyr	Asp	Tyr
		50				55						60			

Thr	Ile	Pro	Pro	Met	Glu	Lys	Xaa	Pro	Pro	Xaa	Xaa	Asn	Ala	Xaa	Asp
65					70					75					80

Ser

<210> 841

<211> 55

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 841

Gln	Ala	Arg	Val	Gln	Trp	Leu	Phe	Thr	Asp	Ala	Asn	Ile	Val	His	Cys
1				5					10					15	

Ser	Leu	Gln	Leu	Leu	Ala	Ser	Ser	Asp	Pro	Pro	Val	Ser	Thr	Ser	Gln
			20					25					30		

Val	Gly	Leu	Gln	Ala	Cys	Ala	Asp	Asp	Ala	Gln	Xaa	Pro	Glu	Leu	Cys
		35						40				45			

800

Leu Ser Leu Ser Pro Thr Thr
50 55

<210> 842
<211> 99
<212> PRT
<213> Homo sapiens

<400> 842
Leu Tyr Gly Cys Glu Lys Thr Thr Glu Gly Gly Gln Pro Leu Phe Gln
1 5 10 15
Pro Leu Ala Gly Phe His His Cys Cys Ser Cys Ser Thr Ala Leu Phe
20 25 30
Arg Thr Gln Thr Thr Ala Ala Ala Val Pro Arg Met Val Ile Arg Val
35 40 45
Tyr Ile Ala Ser Ser Ser Gly Ser Thr Ala Ile Lys Lys Lys Gln Gln
50 55 60
Asp Val Leu Gly Phe Leu Glu Ala Asn Lys Ile Gly Phe Glu Glu Lys
65 70 75 80
Asp Ile Ala Ala Asn Glu Glu Asn Arg Lys Trp Met Arg Glu Asn Val
85 90 95
Pro Gly Lys

<210> 843
<211> 66
<212> PRT
<213> Homo sapiens

<220>
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<222> (8)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE

801

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 843

Ser	Arg	Lys	Val	Pro	Thr	Phe	Xaa	Thr	Pro	Trp	Pro	Asp	Phe	Val	Pro
1				5				10					15		

Arg	Ala	Gly	Gly	Glu	Asn	Tyr	Lys	Glu	Phe	Ser	Glu	Leu	Leu	Pro	Asn
		20					25					30			

Arg	Gln	Gly	Leu	Lys	Lys	Ala	Asp	Xaa	Ser	Phe	Trp	Ser	Lys	Tyr	Ile
	35					40					45				

Ser	Ser	Leu	Xaa	Thr	Ser	Ala	Asp	Gly	Ala	Lys	Gly	Gly	Ala	Val	Ser
	50					55					60				

Arg	Glu
65	

<210> 844

<211> 144

<212> PRT

<213> Homo sapiens

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<222> (111)

<223> Xaa equals any of the naturally occurring L-amino acids

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<221> SITE

<222> (117)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (135)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (136)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 844

Phe	Val	Glu	Gly	Val	Asn	Lys	Lys	Leu	Gly	Leu	Leu	Gly	Asp	Ser	Leu
1				5				10					15		

Asp	Ile	Phe	Lys	Gly	Ile	Pro	Phe	Ala	Ala	Pro	Thr	Lys	Ala	Leu	Glu
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

802

	20		25		30										
Asn	Pro	Gln	Pro	His	Pro	Gly	Trp	Gln	Gly	Thr	Leu	Lys	Ala	Lys	Asn
	35					40						45			
Phe	Lys	Lys	Arg	Cys	Leu	Gln	Ala	Thr	Ile	Thr	Gln	Asp	Ser	Thr	Tyr
	50					55						60			
Gly	Asp	Glu	Asp	Cys	Leu	Tyr	Leu	Asn	Ile	Trp	Val	Pro	Gln	Gly	Arg
	65					70				75					80
Lys	Gln	Val	Ser	Arg	Asp	Leu	Pro	Val	Met	Ile	Trp	Ile	Tyr	Gly	Gly
				85					90					95	
Ala	Phe	Leu	Met	Gly	Ser	Gly	His	Gly	Ala	Asn	Phe	Leu	Asn	Xaa	Tyr
			100					105						110	
Leu	Tyr	Asp	Gly	Xaa	Glu	Ile	Ala	Thr	Arg	Gly	Asn	Val	Ile	Val	Val
		115					120					125			
Thr	Phe	Asn	Tyr	Pro	Cys	Xaa	Xaa	Pro	Trp	Val	Leu	Thr	Leu	Gly	Thr
		130					135					140			

<210> 845

<211> 83

<212> PRT

<213> Homo sapiens

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<222> (72)

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<222> (74)

<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (80)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (81)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 845

His	Ser	Val	Leu	Pro	Pro	Leu	Arg	Arg	Arg	Val	Ser	Leu	Pro	Val	Ala
1				5					10					15	

Met	Glu	Glu	Glu	Ile	Ala	Ala	Leu	Val	Ile	Asp	Asn	Gly	Ser	Gly	Met
			20					25					30		

Cys	Lys	Ala	Gly	Phe	Ala	Gly	Glu	Arg	Arg	Ser	Pro	Ser	Arg	Val	Ser
		35					40					45			

Phe	His	Arg	Arg	Ala	Pro	Gln	Asp	Thr	Arg	Ala	Ser	Trp	Trp	Gly	Met
	50					55					60				

Gly	Gln	Lys	Gly	Leu	Leu	Leu	Xaa	Ala	Xaa	Lys	Ala	Gln	Asn	Lys	Xaa
65					70					75					80

Xaa Leu Pro

<210> 846

<211> 168

<212> PRT

<213> Homo sapiens

<220>

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<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

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<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (139)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (166)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 846

Glu Lys Gln Val Arg Val Leu Thr Asp Ala Val Asp Asp Ile Thr Ser
1 5 10 15

Ile Asp Asp Phe Leu Ala Val Ser Glu Asn His Ile Leu Glu Asp Val
20 25 30

Asn Lys Cys Val Ile Ala Leu Gln Glu Lys Asp Xaa Asp Gly Leu Asp
35 40 45

Arg Thr Ala Gly Ala Ile Arg Gly Arg Ala Ala Arg Val Ile His Val
50 55 60

Val Thr Ser Glu Met Asp Asn Tyr Glu Pro Gly Val Tyr Thr Glu Lys
65 70 75 80

Val Leu Glu Ala Thr Lys Leu Leu Ser Asn Thr Val Met Pro Arg Arg
85 90 95

Ser Gln Pro Xaa Lys Pro Ser Ala Arg Thr Leu Pro Ser Pro Trp Met
100 105 110

Arg Xaa Ser Leu Ser Met Leu Pro Ala Trp Tyr Met Met Ala Ser Gly
115 120 125

Asp Ile Arg Lys Ala Val Leu Xaa Ile Arg Xaa Pro Leu Arg Ser Trp
130 135 140

Met Thr Leu Thr Leu Arg Gln Glu Asp Leu Met Ser Glu Ala Gly Arg
145 150 155 160

Ala Ser Arg Gln Lys Xaa Ile Ser
165

<210> 847

<211> 109

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (79)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

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<223> Xaa equals any of the naturally occurring L-amino acids

<400> 847

Gln Asn Ser Gly Cys Leu Thr Met Ala Trp Ile Pro Leu Leu Leu Pro
1 5 10 15

Leu Leu Thr Leu Cys Thr Gly Ser Glu Ala Ser Tyr Glu Leu Thr Gln
20 25 30

Pro Pro Ser Val Ser Val Ser Pro Gly Gln Thr Ala Arg Ile Thr Cys
35 40 45

Ser Gly Asp Ala Leu Pro Lys Gln Tyr Ala Tyr Trp Tyr Gln Gln Arg
50 55 60

Pro Gly Gln Ala Pro Val Gln Val Ile Tyr Lys Asp Ser Glu Xaa Ala
65 70 75 80

Ser Arg Ile Pro Glu Arg Ile Ser Gly Ser Ser Ser Xaa Thr Thr Val
85 90 95

Thr Leu Thr Ile Gln Trp Gly Pro Ser Lys Lys Gln Ser
100 105

<210> 848

<211> 145

<212> PRT

<213> Homo sapiens

<220>

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<223> Xaa equals any of the naturally occurring L-amino acids

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<220>

<221> SITE

<222> (140)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 848

Xaa Lys Phe Ser Xaa Glu Glu Asp Gly Arg Xaa Ser Asp Xaa Glu Gly
1 5 10 15

Ala Glu Gly His Xaa Asp Ser Gln Ser Ala Ser Gly Glu Glu Arg Pro
20 25 30

Pro Glu Ala Asp Gly Lys Lys Gly Asn Ser Pro Asn Ser Glu Pro Pro
35 40 45

Thr Pro Lys Xaa Ala Trp Ala Glu Thr Ser Arg Pro Pro Glu Thr Glu
50 55 60

Pro Gly Pro Pro Ala Pro Lys Xaa Pro Leu Pro Pro Pro Xaa Arg Gly
65 70 75 80

Pro Ala Gly Asn Trp Gly Pro Pro Gly Asp Tyr Pro Asp Arg Xaa Gly
85 90 95

Leu Pro Ala Ser Pro Gln His Leu Glu Val Glu Asp Glu Ala Trp Arg
100 105 110

His Asp Glu Ser Xaa Arg Leu Leu Asn Phe Leu Gly Ile Gly Arg Xaa
115 120 125

Arg Arg Arg Xaa Glu Glu Lys Ala Ala Val Xaa Xaa Ser Ser Arg Gly
130 135 140

Gln

145

<210> 849

<211> 109

<212> PRT

<213> Homo sapiens

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<400> 849

Xaa Val Arg Leu Leu Val Xaa Val Arg Asn Ser Arg Val Asp Pro Leu
1 5 10 15

Val Arg Pro Asn Met Gly Asp Ser Ala Val Xaa Thr His Trp Glu Pro
20 25 30

Tyr Thr Thr Glu Xaa Xaa Gly Tyr Leu Glu Ile Thr Lys Xaa Met Gly
35 40 45

Ser Xaa Ser Met Lys Trp Ser Leu Xaa Thr Asn Phe Leu Arg Tyr Trp
50 55 60

Thr Leu Xaa Tyr Leu Ala Leu Pro Thr Val Asn Arg Pro Xaa Xaa His
65 70 75 80

Pro Cys Ala Pro His Arg Gly Thr Pro Xaa Xaa Leu Pro Cys Ser Pro
85 90 95

Xaa Gly Glu Ser Glu Asp Cys Pro His Ala Gly His Arg
100 105

<210> 850

<211> 200

<212> PRT

<213> Homo sapiens

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<223> Xaa equals any of the naturally occurring L-amino acids

<400> 850

Leu Asp Ile Thr Val Met Val Phe His His Phe Gly Lys Asp Phe Pro
 1 5 10 15

Lys Ser Glu Lys Leu Ser Pro Asp Ala Phe Ile Gln Met Ala Leu Gln
 20 25 30

Leu Ala Tyr Tyr Arg Ile Tyr Gly Gln Ala Cys Ala Thr Tyr Glu Ser
 35 40 45

Ala Ser Leu Arg Met Phe His Leu Gly Arg Thr Asp Thr Ile Arg Ser
 50 55 60

Ala Ser Met Asp Ser Leu Thr Phe Val Lys Ala Met Asp Asp Ser Ser
 65 70 75 80

Val Thr Glu His Gln Lys Val Glu Leu Leu Arg Lys Ala Val Gln Ala
 85 90 95

His Arg Gly Tyr Thr Asp Arg Ala Ile Arg Gly Glu Ala Phe Asp Arg
 100 105 110

His Leu Leu Gly Leu Lys Leu Gln Ala Ile Glu Asp Leu Val Ser Met
 115 120 125

Pro Asp Ile Phe Met Asp Thr Phe Tyr Ala Ile Xaa Met His Phe Thr
 130 135 140

Ser Ser Gln Pro Gly Pro Ala Arg Gln Met Cys Met Ser Ser Gly Pro
 145 150 155 160

Trp Ser Arg Arg Leu Arg Xaa Xaa Tyr Asn Pro Trp Arg Pro His Asn
 165 170 175

Phe Ser Leu Xaa Ala Thr Gln Leu Arg Gly Asp Asn Ala Ala Ala Gly
 180 185 190

His Thr Glu Lys Ala Leu Glu Ser
 195 200

<210> 851

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<400> 851
Ile Asn Gln Gly Leu Phe Glu Leu Leu Phe Phe Trp Asn Thr Ser Leu
      1              5              10             15
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Ser His Ala Gln Gln Tyr Arg Trp Tyr Gln Met Leu Tyr Gln Ala Gly
20 25 30

Val Phe Ala Ser Arg Ser Ser Leu Arg Cys Cys Arg Ile Arg Phe Thr
35 40 45

Trp Ala Leu Ala Leu Leu Gln Cys Leu Asn Leu Val Phe Leu Leu Ala
50 55 60

Asp Val Trp Phe Gly Phe Leu Pro Ser Ile Tyr Leu Val Phe Leu Ile
65 70 75 80

Ile Leu Tyr Glu Gly Leu Leu Gly Gly Ala Leu Thr Val Asn Thr Phe
85 90 95

His Asn Ile Ala Leu Glu Thr Ser Asp Glu His Arg Glu Phe Ala Met
100 105 110

Gly Gly Asn Cys Ile Leu Lys Asn Gly Asp Xaa Leu Ser Gly Ser Gly
115 120 125

Xaa Ala Leu Xaa Ile Pro Trp Gln Ser Leu Lys Ser Gly Leu Arg Glu
130 135 140

<210> 852
<211> 135
<212> PRT
<213> Homo sapiens

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<221> SITE

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<223> Xaa equals any of the naturally occurring L-amino acids

<400> 852

Thr	Ser	Gly	Ser	Lys	Xaa	Phe	Gly	Gln	Xaa	Gly	Leu	Val	Ser	His	Xaa
1				5					10					15	

Arg	Thr	Thr	Thr	Arg	Pro	Ser	Pro	Tyr	Asp	Asp	Leu	Thr	Tyr	Gly	Glu
			20					25					30		

Gly	Glu	Glu	Asn	Pro	Asp	Gln	Xaa	Thr	Asp	Pro	Gly	Ala	Gly	Ala	Glu
		35					40					45			

Ile	Pro	Thr	Ser	Thr	Xaa	Asp	Thr	Ser	Asn	Ser	Ser	Asn	Xaa	Ala	Pro
	50					55					60				

Pro	Pro	Gly	Glu	Gly	Ala	Asp	Asp	Leu	Glu	Gly	Glu	Phe	Thr	Glu	Glu
65					70					75					80

Thr	Ile	Arg	Asn	Leu	Asp	Xaa	Asn	Tyr	Tyr	Asp	Pro	Tyr	Tyr	Asp	Pro
			85						90					95	

Thr	Ser	Ser	Pro	Val	Gly	Asp	Arg	Xaa	Gly	Asn	Ala	Gly	Glu	Pro	Gly
			100						105				110		

Tyr	His	Leu	Xaa	Arg	Asp	Leu	Xaa	Thr	Ser	Gly	Arg	Glu	Arg	Pro	Lys
		115					120					125			

Xaa	Gly	Thr	Ile	Asp	Phe	Glu
	130					135

<210> 853

<211> 70

<212> PRT

<213> Homo sapiens

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<400> 853
Ala Xaa Leu Ile Arg Xaa Arg Xaa Gly Xaa Ser Gln Ala Thr Leu Xaa

815

1 5 10 15
Val Thr Thr Thr Ser Thr Ser Tyr Arg Xaa Gln Pro Met Xaa Phe Val
20 25 30
Ile Xaa Phe Phe Ile Val Xaa Thr Leu Ile Xaa Gly Gly Phe Gly Gln
35 40 45
Leu Thr Ser Ser Leu Ile Met Gly Ala Pro Ile Trp Gly Leu Pro Ala
50 55 60
Xaa Asn Asn Ile Ser Phe
65 70

<210> 854

<211> 137

<212> PRT

<213> Homo sapiens

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<222> (7)

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<400> 854
Pro Gln Ser Gln Gly Leu Xaa Pro Phe Gly Gln Xaa Xaa Val Lys Glu
1 5 10 15
Leu Asn Arg Xaa Gly Val Leu Ile Asp Leu Ala His Val Ser Val Ala
20 25 30
Thr Met Lys Ala Thr Leu Gln Leu Ser Arg Ala Pro Xaa Ile Phe Ser
35 40 45
His Ser Ser Ala Tyr Ser Val Cys Ala Ser Arg Arg Asn Val Pro Asp

```

      50              55              60
Asp Val Leu Arg Leu Val Lys Xaa Thr Asp Ser Leu Val Met Xaa Asn
 65              70              75              80

Phe Tyr Asn Asn Tyr Ile Ser Cys Thr Asn Lys Ala Asn Leu Ser Gln
              85              90              95

Val Ala Asp His Leu Asp His Ile Lys Glu Val Ala Xaa Ala Arg Xaa
      100              105              110

Val Xaa Phe Gly Xaa Asp Phe Asp Gly Gly Pro Arg Val Pro Glu Xaa
      115              120              125

Leu Xaa Asp Ala Xaa Ser Ile Gln Thr
      130              135

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<210> 855

<211> 84

<212> PRT

<213> Homo sapiens

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<222> (20)

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<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (74)

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<400> 855

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Gly Asp Ile Arg Ser Gly Cys Asn Gly Asp Ser Gly Gly Pro Leu Asn
 1              5              10              15

```

```

Cys Pro Thr Xaa Asp Gly Gly Trp Gln Val His Gly Val Thr Xaa Phe
      20              25              30

```

```

Val Ser Ala Phe Gly Cys Asn Thr Arg Arg Lys Pro Thr Val Phe Thr
      35              40              45

```

```

Arg Val Ser Ala Phe Ile Asp Trp Ile Glu Glu Thr Ile Ala Ser His
      50              55              60

```

Leu Glu Thr Lys Gly Pro Pro Trp Gln Xaa Leu Asn Arg Ser His Ile
 65 70 75 80

Leu Glu Ile Lys

<210> 856

<211> 117

<212> PRT

<213> Homo sapiens

<220>

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<222> (106)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 856

Ala Arg Ala Gln Asn Asp Leu Glu Gln Val Leu Arg Gln Ile Gly Asp
 1 5 10 15

Lys Asp Gln Lys Ile Gln Asn Leu Glu Ala Leu Leu Gln Lys Ser Lys
 20 25 30

Glu Asn Ile Ser Leu Leu Glu Lys Glu Arg Glu Asp Leu Tyr Ala Lys
 35 40 45

Ile Gln Ala Gly Glu Gly Glu Thr Ala Val Leu Asn Gln Leu Gln Glu
 50 55 60

Lys Asn His Thr Leu Gln Glu Gln Val Thr Gln Leu Thr Glu Lys Leu
 65 70 75 80

Glu Glu Ser Val Arg Lys Phe Ile Asn Lys Pro Arg Glu Asn Leu His
 85 90 95

Gly Pro Gly Thr Arg Ala Glu Gly His Xaa Leu Glu Leu Ala Gln Asp
 100 105 110

Arg Val Pro Phe Pro
 115

<210> 857

<211> 62

<212> PRT

<213> Homo sapiens

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<220>
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<400> 857
 Gly Xaa Xaa Glu Ala Gln Thr Ser Xaa Pro Trp Asn Leu His Xaa Xaa
 1 5 10 15
 His His Ser Leu Ser Pro Ile Val Leu Met Gly Ala Leu Xaa Phe Pro
 20 25 30

Val Pro Ser Phe Leu Pro Pro Gly Leu Pro Xaa Asn Xaa Ala Ala Tyr
35 40 45

Ser Xaa Pro Lys Leu Arg Gly Ser Phe Pro Pro Ala Ser Leu
50 55 60

<210> 858

<211> 133

<212> PRT

<213> Homo sapiens

<220>

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<222> (119)

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<222> (132)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (133)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 858

Asn Ser Ala Arg Gly Asp Lys Phe Phe Thr Ser His Asn Gly Met Gln
1 5 10 15

Phe Ser Thr Trp Asp Asn Asp Asn Asp Lys Phe Glu Gly Asn Cys Ala
20 25 30

Glu Gln Asp Gly Ser Gly Trp Trp Met Asn Lys Cys His Ala Gly His
 35 40 45
 Leu Asn Gly Val Tyr Tyr Gln Gly Gly Thr Tyr Ser Lys Ala Ser Thr
 50 55 60
 Pro Asn Gly Tyr Asp Asn Gly Ile Ile Trp Ala Thr Trp Lys Thr Arg
 65 70 75 80
 Trp Tyr Ser Met Lys Lys Thr Thr Met Glu Gly Lys Ser His Ser Thr
 85 90 95
 Asp Ser Gln Leu Glu Glu Gly Gln Gln His His Leu Gly Gly Ala Lys
 100 105 110
 Gln Val Arg Pro Glu His Xaa Ala Glu Thr Gly Xaa Xaa Ser Xaa Tyr
 115 120 125
 Pro Glu Gly Xaa Xaa
 130

<210> 859

<211> 162

<212> PRT

<213> Homo sapiens

<400> 859

Trp Ile Pro Arg Ala Ala Gly Ile Arg His Glu Glu Ser Gly Arg Lys
 1 5 10 15
 Val Gln Ser Gly Asn Ile Asn Ala Ala Lys Thr Ile Ala Asp Ile Ile
 20 25 30
 Arg Thr Cys Leu Gly Pro Lys Ser Met Met Lys Met Leu Leu Asp Pro
 35 40 45
 Met Gly Gly Ile Val Met Thr Asn Asp Gly Asn Ala Ile Leu Arg Glu
 50 55 60
 Ile Gln Val Gln His Pro Ala Ala Lys Ser Met Ile Glu Ile Ser Arg
 65 70 75 80
 Thr Gln Asp Glu Glu Val Gly Asp Gly Thr Thr Ser Val Ile Ile Leu
 85 90 95
 Ala Gly Glu Met Leu Ser Val Ala Glu His Phe Leu Glu Gln Gln Met
 100 105 110
 His Pro Thr Val Val Ile Ser Ala Tyr Arg Lys Ala Leu Asp Asp Met

822

115 120 125
 Ile Ser Thr Leu Lys Lys Ile Ser Ile Pro Val Asp Ile Ser Asp Ser
 130 135 140
 Asp Met Met Leu Asn Ile Ile Asn Ser Ser Ile Thr Thr Lys Gly Ile
 145 150 155 160
 Ser Arg

<210> 860
 <211> 89
 <212> PRT
 <213> Homo sapiens

<220>
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 <222> (73)
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<220>
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 <222> (87)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 860
 Arg Met Thr Ser Arg Lys Lys Val Leu Leu Lys Val Ile Ile Leu Gly
 1 5 10 15
 Asp Ser Gly Val Gly Lys Thr Ser Leu Met Asn Gln Tyr Val Asn Lys
 20 25 30
 Lys Phe Ser Asn Gln Tyr Lys Ala Thr Ile Gly Ala Asp Phe Leu Thr
 35 40 45
 Lys Asp Val Met Val Asp Asp Arg Leu Val Thr Met Gln Ile Trp Gly
 50 55 60
 His Ser Arg Thr Gly Thr Val Pro Xaa Ser Arg Cys Gly Leu Leu Gln
 65 70 75 80
 Arg Cys Lys Leu Leu Arg Xaa Gly Ile
 85

<210> 861
 <211> 40

<212> PRT

<213> Homo sapiens

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<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 861

Ile	Pro	Gly	Xaa	Ile	Xaa	Val	His	Thr	Arg	Phe	Gln	Met	Pro	Asp	Gln
1				5					10					15	

Gly	Ile	Thr	Ser	Ala	Asp	Asp	Phe	Phe	Gln	Gly	Thr	Lys	Ala	Ala	Leu
			20					25					30		

Ala	Gly	Gly	Thr	Thr	Met	Asn	His
		35				40	

<210> 862

<211> 123

<212> PRT

<213> Homo sapiens

<400> 862

Lys	His	Lys	Arg	Glu	Ile	Tyr	Asp	Arg	Tyr	Gly	Arg	Glu	Gly	Leu	Thr
1				5					10					15	

Gly	Thr	Gly	Thr	Gly	Pro	Ser	Arg	Ala	Glu	Ala	Gly	Ser	Gly	Gly	Pro
			20					25					30		

Gly	Phe	Thr	Phe	Thr	Phe	Arg	Ser	Pro	Glu	Glu	Val	Phe	Arg	Glu	Phe
		35				40						45			

Phe	Gly	Ile	Gly	Asp	Pro	Phe	Ala	Glu	Leu	Phe	Asp	Asp	Leu	Gly	Pro
	50					55					60				

Phe	Ser	Arg	Ala	Ser	Arg	Thr	Gly	Phe	Pro	Thr	Leu	Lys	Pro	Leu	Leu
65				70					75					80	

Tyr	Phe	Ser	Ser	Ser	Phe	Pro	Gly	His	Pro	Ile	Leu	Leu	Leu	Ile	Phe
				85				90						95	

Ser	Phe	Asn	Pro	Gly	Leu	Val	Leu	Ser	Leu	Cys	Phe	Tyr	Ser	Thr	Pro
			100					105					110		

824

Leu Ser Lys Glu Ala His Pro His Pro Lys Ser
 115 120

<210> 863
 <211> 99
 <212> PRT
 <213> Homo sapiens

<220>
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<220>
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<400> 863
 Arg Glu Met Leu Thr His Arg Asn Gly Leu Val Lys Lys Gly Lys Glu
 1 5 10 15

Gln Asn Thr Gln Arg Ser Phe Phe Leu Arg Met Lys Cys Thr Leu Thr
 20 25 30

Ser Arg Gly Arg Thr Met Asn Ile Lys Ser Ala Thr Trp Lys Val Leu
 35 40 45

His Cys Thr Gly His Ile His Val Tyr Asp Thr Asn Ser Asn Gln Pro
 50 55 60

Gln Cys Gly Tyr Lys Lys Pro Pro Met Thr Cys Leu Xaa Leu Ile Xaa
 65 70 75 80

Glu Pro Ile Pro His Pro Ser Xaa Ile Glu Xaa Pro Leu His Thr Lys
 85 90 95

Thr Phe Leu

<210> 864
 <211> 99
 <212> PRT
 <213> Homo sapiens

<220>
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 <222> (40)
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<220>
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 Arg Val Pro Ala Gln Leu Leu Gly Leu Leu Leu Leu Trp Leu Pro Gly
 1 5 10 15
 Ala Glu Cys Asp Ile Gln Met Thr Gln Ser Pro Ser Thr Leu Ser Ala
 20 25 30
 Ser Val Gly Asp Arg Ile Thr Xaa Thr Cys Arg Ala Ser Gln Xaa Ile
 35 40 45
 Glu Asn Trp Leu Ala Trp Tyr Gln Gln Xaa Pro Gly Lys Pro Pro Lys
 50 55 60
 Leu Leu Leu Ile Ser Asp Ala Ser Ser Leu Xaa Ser Gly Val Pro Ser
 65 70 75 80
 Arg Phe Ser Gly Met Xaa Leu Gly Arg Asn Ser Leu Ser Pro Phe Pro

85

90

95

Ala Cys Ser

<210> 865

<211> 96

<212> PRT

<213> Homo sapiens

<220>

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<222> (31)

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<220>

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<222> (79)

<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (89)

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<221> SITE

<222> (92)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (93)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 865

Val	Gln	Met	Gln	Val	Gln	Asp	Ile	Leu	Glu	Gln	Asn	Glu	Ala	Leu	Lys
1				5				10						15	

Ala	Gln	Ile	Gln	Gln	Phe	His	Ser	Gln	Ile	Ala	Ala	Gln	Thr	Xaa	Ala
			20					25					30		

Ser	Val	Leu	Ala	Glu	Glu	Leu	His	Lys	Val	Ile	Ala	Glu	Lys	Asp	Lys
		35					40					45			

Gln	Ile	Lys	Gln	Thr	Glu	Asp	Ser	Leu	Thr	Ser	Glu	Arg	Asp	Arg	Leu
	50					55					60				

Thr	Ser	Lys	Glu	Glu	Glu	Leu	Lys	Asp	Ile	Gln	Asn	Met	Asn	Xaa	Leu
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

827

65 70 75 80
Leu Lys Ala Glu Val Gln Lys Leu Xaa Ala Leu Xaa Xaa Glu Gln Ala
 85 90 95

<210> 866

<211> 79

<212> PRT

<213> Homo sapiens

<400> 866

Asp Tyr Arg Val His Ile Ile Ser Phe Lys Asp Pro Asn Pro Met His
1 5 10 15

Ile Asp Ala Thr Phe Asn Ile Ile Gly Pro Gly Ile Val Leu Ser Asn
20 25 30

Pro Asp Arg Pro Cys His Gln Ile Asp Leu Phe Lys Lys Ala Gly Trp
35 40 45

Thr Ile Ile Thr Pro Pro Thr Pro Ile Ile Pro Asp Asp His Pro Leu
50 55 60

Trp Asp Val Ile Gln Met Ala Phe His Glu Cys Leu Asn Ala Arg
65 70 75

<210> 867

<211> 119

<212> PRT

<213> Homo sapiens

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<400> 867
Gln Lys Xaa Ala Thr Lys Arg Lys Xaa Val Ala Cys Arg Tyr Arg Ser
1 5 10 15
Gly Ile Pro Gly Ser Thr His Ala Ser Ala Trp Ala Arg Thr Xaa Pro
20 25 30
Arg Arg Arg Ala Xaa Gly Trp Gly Ala Xaa Trp Ala Arg Ser Gln Gly
35 40 45

Leu Asp Pro Thr Gly Pro Cys Xaa Xaa Asp Xaa Pro Glu Xaa Val Arg
50 55 60

Trp Xaa Pro Ser Xaa Ala Val Cys Val Asp Val Ile His Thr Tyr Ser
65 70 75 80

Ser Pro Ile Xaa Pro Pro Arg Cys Phe Arg Met Thr Gln Xaa Val Xaa
85 90 95

His Leu Asp Phe Xaa Pro Xaa Gly Arg Lys Asp Xaa Pro Xaa Val Lys
100 105 110

Xaa Cys Ser Xaa His His Xaa
115

<210> 868
<211> 178
<212> PRT
<213> Homo sapiens

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<400> 868

833

Gly Glu Thr Glu Gly Thr Gly Asp Ser Gly Leu Arg Ala Ala Pro Gly
 1 5 10 15
 Gly Leu Lys Asn Arg Arg Gln Pro Arg Arg Trp Ser Pro Ile Pro Gly
 20 25 30
 Tyr Ala Leu Gly Ser Glu Lys Ala Ala Ala Gly Gly His Ala Arg Gly
 35 40 45
 Gly Xaa Arg Gly Met Ala Ala Val Trp Gln Gln Val Leu Ala Val Asp
 50 55 60
 Ala Ser Phe Gly Arg Ser Ile Ser Ala Ala Gln Pro Ala Ala Ala Gly
 65 70 75 80
 Xaa Met Pro Arg Val Gly Thr Pro Ser Ala Ala Ser Gly Xaa Pro Glu
 85 90 95
 Ala Ser Gly Ala Xaa Cys Trp Ala Xaa Xaa Thr Xaa Pro Leu Xaa Xaa
 100 105 110
 Lys Glu Cys Ser Val Pro Ile Thr Thr Ala Ser Ser Gly Ser Xaa Arg
 115 120 125
 Thr Tyr Ser Xaa Xaa Gly Trp Lys Asp Xaa Gly Arg Xaa Ile Pro Xaa
 130 135 140
 Xaa Pro Xaa Gly Ala Arg Gly Ala Xaa Ser Phe Pro Phe Gln Lys Lys
 145 150 155 160
 Xaa Xaa Pro Xaa Xaa Gly Gly Gly Gly Xaa Xaa Xaa Asn Arg Gly Pro
 165 170 175
 Ser Xaa

<210> 869

<211> 38

<212> PRT

<213> Homo sapiens

<400> 869

Val Asn Pro Lys Tyr Ile Val Leu Glu Ser Asp Phe Thr Asn Asn Val
 1 5 10 15
 Val Arg Cys Asn Ile His Tyr Thr Gly Arg Tyr Val Ser Ala Thr Asn
 20 25 30
 Cys Lys Ile Val Gln Ser

35

<210> 870

<211> 119

<212> PRT

<213> Homo sapiens

<220>

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<222> (13)

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<220>

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<222> (53)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 870

Gly	Lys	Lys	Arg	Gly	Phe	Ala	Phe	Val	Thr	Phe	Asp	Xaa	His	Asp	Ser
1				5					10					15	

Val	Asp	Lys	Ile	Val	Ile	Gln	Lys	Tyr	His	Thr	Val	Asn	Gly	His	Asn
			20					25					30		

Cys	Glu	Val	Arg	Lys	Ala	Leu	Ser	Lys	Gln	Glu	Met	Ala	Ser	Ala	Ser
			35				40					45			

Ser	Ser	Gln	Arg	Xaa	Arg	Ser	Gly	Ser	Gly	Asn	Phe	Gly	Gly	Gly	Arg
			50			55					60				

Gly	Ser	Gly	Phe	Gly	Gly	Asn	Asp	Asn	Phe	Gly	Arg	Gly	Gly	Asn	Phe
65				70						75				80	

Ser	Gly	Arg	Gly	Gly	Phe	Gly	Gly	Ser	Arg	Gly	Gly	Gly	Gly	Tyr	Gly
			85						90					95	

Gly	Ser	Gly	Asp	Gly	Tyr	Asn	Gly	Phe	Gly	Asn	Asp	Gly	Ser	Asn	Phe
			100					105					110		

Gly	Lys	Trp	Trp	Lys	Leu	Gln
						115

<210> 871

<211> 113

<212> PRT

<213> Homo sapiens

<220>

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<222> (57)

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<222> (70)

<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (87)

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<220>

<221> SITE

<222> (106)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (112)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 871

Ala	Arg	Gly	Thr	Leu	Leu	Leu	Ser	Thr	Leu	Val	Ala	Gly	Ala	Leu	Ser
1				5					10					15	

Cys	Gly	Val	Ser	Thr	Tyr	Ala	Pro	Asp	Met	Ser	Arg	Met	Leu	Gly	Gly
			20					25					30		

Glu	Glu	Ala	Arg	Pro	Asn	Ser	Trp	Pro	Trp	Gln	Val	Ser	Leu	Gln	Tyr
		35					40					45			

Ser	Ser	Asn	Gly	Gln	Trp	Tyr	His	Xaa	Cys	Gly	Gly	Ser	Leu	Asp	Ser
		50				55						60			

Gln	Gln	Leu	Gly	Pro	Xaa	Gly	Cys	Pro	Leu	His	Gln	Phe	Leu	Arg	Asp
		65				70					75				80

Leu	Pro	Arg	Gly	Cys	Trp	Xaa	Ser	Met	Asn	Leu	Leu	Arg	Trp	Gln	Ser
				85					90					95	

Ser	Gly	Ser	Leu	Gly	Leu	Gln	Cys	Leu	Xaa	Arg	Leu	Leu	Val	Gln	Xaa
			100					105					110		

Gly

<210> 872
 <211> 71
 <212> PRT
 <213> Homo sapiens

<220>
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 <222> (35)
 <223> Xaa equals any of the naturally occurring L-amino acids

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 <222> (67)
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<400> 872
 Gly Ala Met Gln Glu Glu Leu Gln Trp Pro Phe Pro Ser Pro Gly Tyr
 1 5 10 15
 Leu Leu Tyr Ser Thr Gly His Arg Ala Gln Trp Arg Arg Xaa Glu Trp
 20 25 30
 Arg Ser Xaa Asp Val Met Asn Tyr Phe Ala Trp Glu Arg Asn Pro Ser
 35 40 45
 Thr Ile Ser Ser Pro Gly His Cys Ala Ser Leu Ser Arg Ser Thr Ala
 50 55 60
 Phe Leu Xaa Val Glu Arg Leu
 65 70

<210> 873
 <211> 79
 <212> PRT
 <213> Homo sapiens

<220>
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 <222> (45)
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<220>
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<222> (50)

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<220>

<221> SITE

<222> (78)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (79)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 873

Ser	Arg	Gly	Ser	Asp	Pro	Phe	Leu	Glu	Tyr	Asn	Asn	Tyr	Gly	Cys	Tyr
1				5					10					15	

Cys	Gly	Leu	Gly	Gly	Ser	Ser	Thr	Pro	Val	Asp	Glu	Leu	Asp	Lys	Cys
		20						25					30		

Cys	Gln	Thr	His	Asp	Asn	Cys	Tyr	Asp	Gln	Ala	Lys	Xaa	Leu	Asp	Ser
		35						40					45		

Cys	Xaa	Phe	Leu	Leu	Asp	Asn	Pro	Tyr	Thr	His	Thr	Tyr	Ser	Tyr	Ser
	50					55					60				

Cys	Ser	Gly	Ser	Ala	Ile	Thr	Cys	Tyr	His	Gln	Lys	Gln	Xaa	Xaa	
	65					70					75				

<210> 874

<211> 41

<212> PRT

<213> Homo sapiens

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<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

838

<400> 874

Arg Ser Gln Glu Tyr Xaa Arg Xaa Pro Ala Ala Arg Ser Ser Xaa Thr
1 5 10 15
Leu Trp Arg Ile Arg Thr Arg Leu Ser Leu Cys Arg Gly Pro Arg Ala
20 25 30
Ala Ala Ala Ala Leu Pro Pro Ala Cys
35 40

<210> 875

<211> 64

<212> PRT

<213> Homo sapiens

<220>

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<222> (53)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (54)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 875

Gln Ser Pro Glu Ser Pro Arg Arg Val Gln Leu Gly Arg Phe Asp Arg
1 5 10 15
Arg Arg Glu Pro Asp Thr Asp Arg Ser Trp Arg Pro Phe Ser Leu Ser
20 25 30
Glu Cys Cys Ser Cys His Cys Gly His Gly Arg Tyr Pro Val Pro Val
35 40 45
Glu Val His Gly Xaa Xaa Thr Gly Arg Lys Leu Ala Lys Lys Ala Val
50 55 60

<210> 876

<211> 97

<212> PRT

<213> Homo sapiens

<400> 876

839

Ser Asp Arg Pro Thr Met Ala Pro Gly Val Ala Arg Gly Pro Thr Pro
 1 5 10 15
 Tyr Trp Arg Leu Arg Leu Gly Gly Ala Ala Leu Leu Leu Leu Leu Ile
 20 25 30
 Pro Val Ala Ala Ala Gln Glu Pro Pro Gly Ala Ala Cys Ser Gln Asn
 35 40 45
 Thr Asn Lys Thr Cys Glu Glu Cys Leu Lys Asn Val Ser Cys Leu Trp
 50 55 60
 Cys Asn Thr Asn Lys Ala Cys Leu Asp Tyr Pro Val Thr Ser Val Leu
 65 70 75 80
 Pro Pro Ala Ser Leu Cys Lys Leu Ser Ser Ala Arg Trp Gly Val Cys
 85 90 95
 Gly

<210> 877

<211> 54

<212> PRT

<213> Homo sapiens

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<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 877

Ala Lys Xaa Arg Xaa Pro Arg Gln Ser Cys Leu Ile His Glu Ser Xaa
1 5 10 15

Cys Pro Glu Gly Thr Asn Ala Tyr Arg Ser Tyr Xaa Tyr Tyr Phe Asn
20 25 30

Glu Asp Pro Glu Thr Xaa Val Asp Ala Arg Ser Leu Leu Pro Glu His
35 40 45

Glu Phe Xaa Xaa Pro Gly
50

<210> 878

<211> 74

<212> PRT

<213> Homo sapiens

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<222> (64)

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<220>

<221> SITE

<222> (68)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 878

His Tyr His Leu Leu Phe Tyr Ser Tyr Asn Asp Tyr Val Arg Glu Phe
1 5 10 15

His Asn Met Gly Pro Pro Pro Pro Trp Gln Gly Met Pro Pro Tyr Pro
20 25 30

Gly Met Glu Gln Pro Pro His His Pro Tyr Tyr Gln His His Ala Pro
35 40 45

Pro Pro Gln Ala His Pro Pro Tyr Ser Gly His His Pro Val Pro Xaa
50 55 60

Glu Ala Arg Xaa Arg Asp Lys Arg Ile Ser
65 70

<210> 879

<211> 138

<212> PRT

<213> Homo sapiens

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<222> (83)

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<220>

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<223> Xaa equals any of the naturally occurring L-amino acids

<400> 879

Asn	Ser	Ala	Arg	Gly	Glu	Leu	Ala	Phe	Leu	His	Thr	Ser	His	Cys	Leu
1				5					10					15	

Ala	Ser	Gly	Glu	Val	Met	Ile	Ser	Ser	Leu	Gly	Asp	Val	Lys	Gly	Asn
			20					25					30		

Gly	Lys	Gly	Gly	Phe	Val	Leu	Leu	Asp	Gly	Glu	Thr	Phe	Glu	Val	Lys
	35						40					45			

Gly	Thr	Trp	Glu	Arg	Pro	Gly	Gly	Ala	Ala	Pro	Leu	Gly	Tyr	Asp	Phe
	50					55					60				

Trp	Tyr	Gln	Pro	Arg	His	Asn	Val	Met	Ile	Ser	Thr	Glu	Trp	Ala	Ala
65					70					75				80	

Pro	Asn	Xaa	Leu	Arg	Asp	Gly	Phe	Asn	Pro	Ala	Asp	Val	Glu	Ala	Gly
			85						90					95	

Glu	Asn	Pro	Pro	Met	Xaa	Gln	Gln	Glu	Pro	Xaa	Gly	Leu	His	Xaa	Leu
			100					105					110		

Xaa	Phe	Xaa	Val	Pro	Asn	Leu	Ser	Thr	Pro	Thr	Ile	Xaa	Leu	Xaa	Ile
			115				120					125			

Gly	Pro	Arg	Xaa	Leu	Lys	Xaa	Gly	Trp	Pro
	130					135			

<210> 880

<211> 107

<212> PRT

<213> Homo sapiens

<400> 880

Gln	Arg	Asp	Phe	Phe	Arg	Thr	Ser	Lys	Lys	Met	Tyr	Pro	His	Arg	Pro
1				5					10					15	

843

Val Leu Met Val Ile Ser His Ala Ala Pro His Gly Pro Glu Asp Ser
 20 25 30
 Ala Pro Gln Tyr Ser Arg Leu Phe Pro Asn Ala Ser Gln His Ile Thr
 35 40 45
 Pro Ser Tyr Asn Tyr Ala Pro Asn Pro Asp Lys His Trp Ile Met Arg
 50 55 60
 Tyr Thr Gly Pro Met Lys Pro Ile His Met Glu Phe Thr Asn Met Leu
 65 70 75 80
 Gln Arg Lys Ala Cys Arg Pro Ser Cys Arg Trp Thr Thr Pro Trp Arg
 85 90 95
 Arg Phe Thr Thr Cys Trp Leu Arg Arg Ala Ser
 100 105

<210> 881

<211> 122

<212> PRT

<213> Homo sapiens

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<221> SITE

<222> (88)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 881

Met Ile Phe Asn Ala Glu Arg Val Gly Gly Leu Glu Glu Glu Arg Glu
 1 5 10 15
 Ser Val Gly Pro Leu Arg Glu Asp Phe Ser Leu Ser Ser Ser Ala Leu
 20 25 30
 Ile Gly Leu Leu Val Ile Ala Val Ala Ile Ala Thr Val Ile Val Ile
 35 40 45
 Ser Leu Val Met Leu Arg Lys Xaa Ala Val Trp His His Gln Pro Arg
 50 55 60
 Asp Arg Gly Gly Leu Ile Gln Cys Ser Pro Gln Lys Asn Val Pro Glu
 65 70 75 80

844

Gln Asp Ala Glu Pro Cys Tyr Xaa Asn Pro Leu Pro Ile Leu Asp Arg
85 90 95

Ser Ile Arg Leu Gln Asp Ala His Leu Arg Gly Ser Val Ala Glu Ile
100 105 110

His Ile Arg Ser Met Gln His Thr Val Gln
115 120

<210> 882

<211> 26

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

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<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 882

Phe Xaa Asn Gly His Gln Glu Lys Asn Xaa Phe Leu Ala Xaa Gln Gly
1 5 10 15

Pro Lys Glu Glu Thr Val Xaa Asp Phe Trp
20 25

<210> 883

<211> 34

<212> PRT

<213> Homo sapiens

845

<400> 883

Gln Ala Arg His Leu Leu Gly Gln Arg Val Leu Val Leu Glu Leu
1 5 10 15

Ser Cys Glu Gly Asp Asp Glu Asp Thr Ala Phe Pro Thr Leu His Tyr
20 25 30

Glu Leu

<210> 884

<211> 35

<212> PRT

<213> Homo sapiens

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<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 884

Gly Pro Ala Ser Pro His Ala Thr Leu Gly Pro Xaa Pro Cys Arg Val
1 5 10 15

Leu Phe Ser Met Ser Phe Ile Pro Xaa Xaa Glu Xaa Phe Arg Leu Pro
20 25 30

His Pro Gln

35

<210> 885

<211> 73

<212> PRT
 <213> Homo sapiens

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<220>
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 <222> (3)
 <223> Xaa equals any of the naturally occurring L-amino acids

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 Ala Ala Xaa Arg Arg Arg Arg Ser Arg Ala Pro Ala Pro Ala Ser Ala
 20 25 30
 Val Ala Leu Leu Arg Arg Gly Thr Glu Ser Pro Gln Val Met Gly Gln
 35 40 45
 Asn Leu Phe Thr Lys Arg Arg Asp Ser Asn Arg Gly Arg Gly Cys Glu
 50 55 60
 Pro Xaa Ser Cys Gln Val Asn Glu Glu
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<210> 886
 <211> 108
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His Cys Pro Ser Ala Leu Phe Val Pro Cys Xaa Xaa Lys Xaa Gly Ala
20 25 30

Gln Met Val Arg Pro Glu Xaa Ala Ala Gly Gly Ile Trp Asp Thr Pro
35 40 45

Val Gly Thr Gly Cys Xaa Pro Gly Leu Ile Pro Ser Phe His His Asp
50 55 60

Arg Asn Ala Leu Xaa Lys Ala Gly Leu Leu Gly Ala Cys Ser Pro Arg
65 70 75 80

Pro Pro Gln Arg Glu Pro Arg Cys Phe Pro Xaa Pro His Pro Phe Pro
85 90 95

Xaa His Xaa Leu Thr Val Leu Leu Ala Gln Pro Glu
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<210> 887

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Arg	Ala	Leu	Arg	Ser	Glu	Asp	Glu	Xaa	Ala	Xaa	Pro	Val	Thr	Xaa	Gly
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Gly	Gln	Ser	Thr	Xaa	Glu	Pro	Asp	Ser	Arg	Thr	Pro	Gly	Lys	His	Val
			20					25					30		

Gln	Met	Gln	Leu	Ser	Leu	Xaa	Xaa	Thr	Asn	Asn	Ile	Asp	Pro	Val	Gly
		35					40					45			

Lys	Asn	Pro	Asn	Glu	Thr	Gln	Gly	Gly	His	Xaa	Gly	Gly	His	Leu	Gly
	50					55					60				

Xaa	Xaa	Ser	Asp	Gly	Xaa	Ala	Leu	Gly	Ala	Xaa	Thr	Pro
65						70					75	

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 Leu Gly Asp Cys Ala Trp Arg Trp Arg Arg Trp Arg Pro Leu Ala Ala
 20 25 30
 Gly Arg Ala Gln His Leu Xaa His Ala Arg Cys Glu Leu Xaa Xaa Ala
 35 40 45
 Glu Pro Gly Leu Arg Xaa
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<210> 889
 <211> 54
 <212> PRT
 <213> Homo sapiens

<400> 889
 Thr Ala Ser Ser Pro Gln Pro Ile Leu Leu Pro Leu Gln Pro Ala Glu
 1 5 10 15
 Glu Leu Ser Trp Ala Ala Pro Ile Ser Pro Asn Lys Val Tyr Ile Phe
 20 25 30

Cys Val Asp Ala Arg Pro Thr Ser Phe Pro Gly Phe Val Ala Val Arg
35 40 45

Arg Lys Gly His Glu Phe
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<400> 890

Val Thr Gly Leu Asp His Ile Leu Asp Pro Glu Glu Gly Asp Thr Leu
1 5 10 15

Ala His Ala Xaa Gly Xaa Xaa Gly Arg Arg Ser Lys Val Xaa Ile Phe
 20 25 30

Phe Asp Gly Ser Arg Ser Ile Ser Leu Arg Lys Ser Lys Ile Asn Phe
 35 40 45

Xaa Ser Arg Val Xaa Xaa Trp Phe
 50 55

<210> 891

<211> 57

<212> PRT

<213> Homo sapiens

<400> 891

Ser Leu Val Pro Cys Pro Gln Ala Arg Trp Glu Ser Leu Gly Ser Ala
 1 5 10 15

Tyr Ser Gly Ser Pro Leu Gly Ser Lys Gln Gly Gly Leu Ser Leu Pro
 20 25 30

Glu Ser Asp Gly Arg Val Gly Gly Leu Gly His Leu Pro Val Pro Phe
 35 40 45

Pro Lys Met Pro Ser Ser Val Pro Ala
 50 55

<210> 892

<211> 73

<212> PRT

<213> Homo sapiens

<400> 892

Ser Thr His Ala Ser Val Cys Val Ala Tyr Ile Val Ala Gly Ala Trp
 1 5 10 15

Leu Leu Ile Arg Ala Cys Thr Ser Phe Phe Asp Asn Lys Arg Val Lys
 20 25 30

Ile Ala Pro Arg Pro Gly Glu Arg Glu Arg Val Ser Phe Tyr Ile Tyr
 35 40 45

Ser Phe Gln Ala Asn Phe Gly Glu Ala Leu Thr Phe Leu Arg Gly Gly
 50 55 60

Gly Gly Glu Val Lys Ser Cys Asp Leu

853

65 70

<210> 893

<211> 44

<212> PRT

<213> Homo sapiens

<400> 893

Val Leu Gln Cys Pro Thr His Lys Asn Gly Lys His Gly Ser Leu Arg
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Leu Leu Gln Ser Thr Leu Leu Gln Ser Lys Ser Tyr Ser Leu Arg Lys
20 25 30

Cys Leu Leu Pro Phe Leu Phe Ser Ser Leu Leu Val
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<210> 894

<211> 56

<212> PRT

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<400> 894

Ile Met Pro Ser Ser Ile Leu Ala Leu Gly Pro Thr Arg Pro Ser Ser
1 5 10 15

Asn Trp Glu Met Gly Arg Ser Lys Ala Gly Leu Met Leu Phe Arg Val
20 25 30

Ser Ser Tyr Leu Glu Leu Thr Arg Pro Thr Pro Val Ala Ile Pro Glu
35 40 45

Lys Ser Gln Leu Pro Gly Cys Leu
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<210> 895

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Xaa Asp Lys Xaa Xaa Leu Xaa Xaa His Arg Phe Xaa Ile Leu Lys Gln
20 25 30

Met Xaa His Lys Val Arg Asp Ser Xaa Gly Xaa Ile Xaa Asp Lys Thr
35 40 45
Xaa Leu Asp Met Arg Val Tyr Gly Leu Arg Ala Xaa Val Leu Gly Leu
50 55 60
Glu Gln Gln Ile Ala Leu Met Cys Lys Pro Phe Asn Asn Ser Leu Phe
65 70 75 80
Arg Arg His Phe Phe Xaa Ala Lys Xaa Ser Trp Met Gln Xaa Xaa
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<210> 896

<211> 148

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1

5

10

15

Val Cys Gln Ala His Leu Val Lys Lys Val Lys Met Gly Met Leu Val
 20 25 30
 Pro Trp Gly His Leu Val Leu Gln Xaa Gln Glu Val Leu Lys Val Pro
 35 40 45
 Met Glu Leu Met Asp His Lys Asp Pro Gln Gly Leu Phe Gly Ser Val
 50 55 60
 Gly Gly Val Gly Glu Lys Gly Glu Pro Gly Val Ser Arg Glu Pro Arg
 65 70 75 80
 Ala Ser Trp Gly Lys Gln Val Leu Gly Gly Pro Gln Ser Xaa Xaa Glu
 85 90 95
 Val Glu Lys Gly Gly Xaa Xaa Xaa Ser Thr Xaa Xaa Xaa Leu Gly Thr
 100 105 110
 Ser Gln Xaa Xaa Xaa Gly Xaa Thr Arg Xaa Cys Phe Gly Pro Lys Gly
 115 120 125
 Xaa Pro Gly Xaa Phe Xaa Val Phe Xaa Xaa Xaa Ser Gly Xaa Phe Gly
 130 135 140
 Gly Phe Trp Xaa
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<210> 897

<211> 61

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<400> 897

Ala	Pro	Gly	Gln	Xaa	Gly	Glu	Ile	Gly	Pro	Ser	Gly	Leu	Thr	Gly	Xaa
1				5					10					15	

Arg	Xaa	Phe	Pro	Gly	Ser	Pro	Gly	Xaa	Xaa	Gly	Leu	Pro	Gly	Ser	Met
			20					25					30		

Gly	Ser	Pro	Gly	Thr	Pro	Ser	Xaa	Asp	His	Gly	Xaa	Thr	Xaa	Gly	Pro
		35					40					45			

Gly	Ile	Val	Gln	Thr	Ile	Asp	Asp	Xaa	His	Cys	Xaa	Phe
	50					55					60	

<210> 898

<211> 37

<212> PRT

<213> Homo sapiens

<400> 898

Glu Gln Leu Lys Glu His Thr Arg Leu Cys Ser Lys Ile Val Gly Arg
1 5 10 15

Phe Ile Gly Arg Gly Asp Lys Pro Thr Glu Pro Gly Asp Ser Trp Leu
20 25 30

Ser Lys Ile Glu Ser
35

<210> 899

<211> 50

<212> PRT

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<400> 899

Asp Pro Gln Leu Ala Gly Gly Gln Ile Ser Arg Val Gly Gln Arg Gly
1 5 10 15

Lys Asn Ile Ala Ser Val Gly Asp Ala Val Gln Leu Pro Lys Gly Val
20 25 30

Arg Asn Gly Asn Ala Glu Xaa Trp Glu Lys Gly Ser Gly Gly Gly Arg
35 40 45

Arg Gly
50

<210> 900

<211> 53

<212> PRT

<213> Homo sapiens

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Ile Ile Leu Ile Xaa Xaa Ser Leu Ser Lys Xaa Leu Gly Met Phe Ser
1 5 10 15
Val Ile Gly Xaa Arg Tyr Gln Phe Pro Xaa Leu Ser Phe Asp Ile Gln
20 25 30
Tyr Leu Ile Xaa Thr Leu His Xaa Trp Ser Ser Lys Xaa Xaa Leu Gln

35 40 45

Xaa Cys Gln Ile Ile
50

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1 5 10 15
Tyr Asn Xaa Ala His His Arg Pro Ser Pro Ala Gln Pro Ile Lys Asp
20 25 30
Pro Gly Pro Val Pro Ser Cys Ile His Val Cys Leu Pro Gly Ser Gly
35 40 45
Glu Arg Arg Gly Cys
50

<210> 902
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<400> 902

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1						5			10				15		

Ser	Phe	Leu	Leu	Ser	Ser	Leu	Leu	Ala	Leu	Leu	Thr	Val	Ser	Thr	Pro
			20					25					30		

Ser	Trp	Cys	Gln	Xaa	Thr	Glu	Ala	Ser	Pro	Lys	Xaa	Xaa	Asp	Gly	Thr
		35					40					45			

Pro	Phe	Pro	Trp	Asn	Lys	Ile	Arg	Leu	Pro	Glu	Tyr	Val	Ile	Pro	Val
	50				55						60				

Gln	Tyr	Lys	Ser	Leu	Asp	Xaa	Cys	Lys	Pro	Tyr	Xaa	Ala	Asp	Phe	Trp
65					70					75				80	

Gly Asn Xaa

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1				5				10						15	
Val	Phe	Ile	Leu	Ile	Lys	Phe	Gly	Cys	Ser	Xaa	Ile	Ser	Leu	Cys	Lys
			20					25						30	
Xaa	Thr	Leu	Ile	Phe	Ser	Pro	Lys	Trp	Asn	Asp	Glu	Arg	Phe	Phe	Ser
			35					40						45	
Pro	Leu	Pro	Tyr	Ala	Pro	Leu	Lys	Ser	Tyr	Met	Ser	Leu	Tyr	Tyr	Leu
			50					55						60	
Ala	Ile	Met	Gly	Ile	Phe	Ile	Ser	Thr	Val	Val	Leu	Phe	Trp	Ser	Ala
			65					70						75	80
Pro	Tyr	Pro	Val	Asn	Ile	Ser	Ile	Val	Leu	Gln	Xaa	Leu	Cys	Ser	Leu
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Phe	Cys	Gln	Gly	Ser	Xaa	Val	Xaa								
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 Phe Phe Phe Phe Xaa Phe Xaa Xaa
 20

<210> 905
 <211> 50
 <212> PRT
 <213> Homo sapiens

<400> 905
 Gly Asn Lys Thr Leu His Leu Ile Pro Ile Thr Ser Ser Ile Ile Phe
 1 5 10 15
 Gln Leu Ile Ile Lys Ser Val Leu Gly Asn Thr Leu Arg Thr Phe Met
 20 25 30
 Met Gln Gln Met Leu Thr Lys Gly Leu Val Gly Arg Tyr Ser Gly Asn
 35 40 45
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<400> 906

Glu	Ile	Trp	Ser	Ser	Ile	Leu	Leu	Arg	Gln	Gln	Pro	Xaa	Glu	Ser	Asn
1				5					10					15	

Leu	Ser	Leu	Pro	Ala	Asp	Asp	Xaa	Pro	Ser	Met	Asn	Arg	Leu	Gly	Xaa
			20					25					30		

Gln	Gln	Val	Pro	Ser	Phe	Met	Glu	Leu	Ser	Leu	Lys	Asp	Pro	Xaa	Val
		35					40					45			

Leu	Lys	Leu	Xaa	Gly	Arg	Xaa
	50					55

<210> 907

<211> 75

<212> PRT

<213> Homo sapiens

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Lys	Arg	Xaa	Arg	Pro	Asn	Leu	Phe	Xaa	Lys	Val	Lys	Gly	Gly	Phe	Xaa
1				5					10					15	

Pro	Lys	Gly	Pro	Ser	Arg	Glu	Lys	Asn	Xaa	Pro	Gly	Pro	Gly	Lys	Lys
			20					25					30		

Xaa	Leu	Gly	Xaa	Lys	Xaa	Arg	Val	Xaa	Gly	Ile	Lys	Arg	Gly	Xaa	Xaa
		35						40					45		

Leu	Thr	Phe	Pro	Pro	Gly	Phe	Phe	Pro	Leu	Gly	Phe	Ser	Gln	Lys	Asn
	50						55					60			

Phe	Phe	Pro	Lys	Gly	Xaa	Pro	Lys	Lys	Ile	Phe
65						70				75

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<211> 28

<212> PRT

<213> Homo sapiens

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Phe	Phe	Phe	Gln	Lys	Tyr	Val	His	Ile	Xaa	Ile	Met	Pro	Lys	Val	Pro
1				5					10					15	

Pro Gly Xaa Val Lys Ala Arg Xaa Pro Gly Xaa Trp
 20 25

<210> 909

<211> 141

<212> PRT

<213> Homo sapiens

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Cys Leu Cys Pro Ala Pro Arg Gly Gly Ala Tyr Arg Gly Arg Gln Ala
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Ser Leu Ser Cys Gly Gly Leu His Pro Val Arg Ala Ser Trp Leu Leu
 20 25 30

Cys Leu Pro Lys Gln Ala Trp Ala Met Val Gly Ala Pro Pro Thr Ala
 35 40 45

Ser Leu Pro Pro Cys Ser Leu Ile Ser Asp Cys Cys Ala Ser Asn Gln
 50 55 60

Arg Asp Ser Met Gly Val Gly Pro Ser Glu Pro Gly Ala Gly Tyr Asn
 65 70 75 80

Leu Leu Val His His Ser Leu Ser Pro Ser Glu Lys His Ser Ile Arg
 85 90 95

Val Gly Val Thr Gln Phe Ser Arg Cys Arg Leu Ser Pro Leu Ser Leu
 100 105 110

Thr Arg Lys Gly Thr Ser Leu Thr Pro Cys Ala Ser Arg Val Lys Gln
 115 120 125

Cys Leu Asn Leu Leu Arg Leu Thr His Gly Gly Leu His
 130 135 140

<210> 910

<211> 47

<212> PRT

<213> Homo sapiens

<400> 910

Leu Gln Cys Pro Ile Asn Gln Leu Gln Gln Leu Pro Asn Cys Asp Gln
 1 5 10 15

Ser Leu His Thr Cys Thr Gly Phe Pro Gln Tyr Leu Trp Ala Leu Val

871

20 25 30
 Leu Gly Pro Leu Met Asp Thr Asn Ile Tyr Gly Cys Ser Ser Pro
 35 40 45

 <210> 911
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 Met Gln Glu Leu Gly Phe Gln Pro Ser Leu Leu Thr His Trp Ala Ala
 1 5 10 15

 Gln Ser Ser Ala Ser Ser Ala Asp Ser Cys His Ser Leu Ala Gly Gly
 20 25 30

 Gly Pro Leu Val Phe His Thr Arg Val Lys Trp Ser Trp Cys Ser Leu
 35 40 45

 Ser Gly Val Leu Gly Trp Gly Ile Leu Cys His Xaa Gln Glu Arg Leu
 50 55 60

 His Leu Pro Val Ile Ser Pro Ala Pro Ser Val Pro Arg Gly Leu Pro
 65 70 75 80

 Gly Pro Gln Pro

<210> 912
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<400> 912

Gly	Trp	Leu	Ala	Gly	Glu	Val	Leu	Pro	Pro	Val	Xaa	Pro	Pro	Gly	Pro
1				5				10						15	

Xaa	Ser	Thr	Ser	Leu	Arg	Lys	Thr	Thr	Xaa	Pro	Xaa	Asp	Pro
			20				25					30	

<210> 913

<211> 125

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Val	Ser	Thr	Thr	Glu	Gly	Tyr	Gly	Cys	Val	Glu	Asp	Asp	Arg	Arg	Gly
1				5				10						15	

Leu	Leu	Ser	Asn	Cys	Leu	Thr	Ala	Cys	Ser	Ser	His	Trp	Cys	Glu	Leu
			20				25						30		

Gln	His	Pro	Leu	Cys	Ser	Lys	Trp	Thr	Pro	Thr	Ala	Leu	Ala	Pro	Leu
			35				40					45			

873

Val Ala Pro Ala Arg Ala Pro Ala Pro Ala Ser Ala Xaa Ser Ala Asn
 50 55 60

Ala Pro Pro Ala Arg Arg Ala Ala Val Pro Ala Ala Pro Trp Ala Val
 65 70 75 80

Pro Ser Val Pro Arg Ala Ala Ser Ala Lys Gly His Xaa Lys Asn Ala
 85 90 95

Ala Ala Val Pro Asp Val Gly Thr Ala Leu Leu Pro Asp Val Asn Arg
 100 105 110

Thr Thr Cys Thr Thr Trp Ile Phe Leu Lys Ile Xaa His
 115 120 125

<210> 914

<211> 59

<212> PRT

<213> Homo sapiens

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Val Leu Glu Phe Tyr Ile Arg Lys Thr Lys Leu Leu Ser Leu Ala Ser
 1 5 10 15

Ser Val Leu Pro Phe Val Ser Leu Leu Ile Leu Phe Leu Gly Gly Gly
 20 25 30

Xaa Phe Ala Phe Xaa Ser Ser Trp His Asn Phe His Phe Ile Leu Leu
 35 40 45

Ser Val Tyr Xaa Asn Phe Pro Leu Ser Arg Leu
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 Val Ser Arg Trp Thr Arg Leu Pro Arg Ala Leu Ala Xaa His Leu Leu
 20 25 30
 Thr Gln Leu Arg Gly Phe Gly Ile Leu Trp Pro His Cys Glu Glu Ile
 35 40 45
 Gly Ser Gly Ser Glu Ala Thr Gly Arg Leu Pro Leu Pro Glu Ile Trp
 50 55 60
 Ser Glu Glu Xaa Pro Pro Ser Ser His His Ser Lys Glu Val His Glu
 65 70 75 80
 Asn Xaa Ser Val Ile Pro Phe Asn Xaa Val Asp Ile Thr Phe Ile
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<210> 916
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 <212> PRT
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Ile	Trp	Arg	Ser	Asp	Phe	Val	Ala	Lys	Ile	Leu	Pro	Arg	Trp	Cys	Trp
1				5					10					15	

Val	Leu	Leu	Val	Ala	Ser	Cys	Gln	Glu	Ala	Asp	Asn	Ala	Gly	Ala	Ser
			20					25					30		

Leu	Leu	Val	Met	Leu	Arg	Leu	Leu	Gly	Gly	Phe	Gly	Val	Leu	Gly	Phe
		35					40					45			

Asn	His	Ser	Leu	Gln	Xaa	Ser	Thr	Phe	Tyr	Leu	Thr	Xaa	Xaa
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<211> 36

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Glu	Lys	Thr	Arg	Gln	Cys	Thr	Leu	Pro	Met	Xaa	Val	Ser	His	Asn	Thr
1				5					10					15	

Asp	Val	Thr	Phe	Ile	Cys	Phe	Ile	Ser	His	Leu	Val	Ser	Lys	Xaa	Phe
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

876

20 25 30

Gly Gly Arg Gly
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<210> 918
<211> 74
<212> PRT
<213> Homo sapiens

<400> 918
His Glu Ser Pro Glu Arg Gly Arg Pro His Glu Arg Ala Arg Ser Arg
1 5 10 15
Glu Arg Asp Leu Ser Arg Asp Arg Ser Arg Gly Arg Ser Leu Glu Arg
20 25 30
Gly Leu Asp Gln Asp His Ala Arg Thr Arg Asp Arg Ser Arg Gly Arg
35 40 45
Ser Leu Glu Arg Gly Leu Asp His Asp Phe Gly Pro Ser Arg Asp Arg
50 55 60
Asp Arg Asp Arg Ser Arg Gly Pro Glu His
65 70

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<212> DNA
<213> Homo sapiens

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tctcccgga tctgaggtc acatgcgtgg tgggtggacgt aagccacgaa gaccctgagg 180
tcaagttcaa ctggtacgtg gacggcgtgg aggtgcataa tgccaagaca aagccgcggg 240
aggagcagta caacagcacg taccgtgtgg tcagcgtcct caccgtcctg caccaggact 300
ggctgaatgg caaggagtac aagtgcagg tctccaacaa agccctccca acccccatcg 360
agaaaacat ctccaaagcc aaagggcagc cccgagaacc acaggtgtac accctgcccc 420
catcccgga tgagctgacc aagaaccagg tcagcctgac ctgcctgggc aaaggcttct 480
atccaagcga catcgccgtg gagggtggga gcaatgggca gccggagaac aactacaaga 540
ccacgcctcc cgtgctggac tccgacggct ccttcttctc ctacagcaag ctcaccgtgg 600
acaagagcag gtggcagcag gggaacgtct tctcatgctc cgtgatgcat gaggctctgc 660
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gactctagag gat 733

877

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cccgaaatat ctgccatctc aattag 86

<210> 922
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<210> 923
<211> 271
<212> DNA
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aaatatctgc catctcaatt agtcagcaac catagtcccc cccctaactc cgcccatccc 120
gcccctaact ccgcccagtt ccgcccattc tccgccccat ggctgactaa ttttttttat 180
ttatgcagag gccgaggccg cctcggcctc tgagctattc cagaagtagt gaggaggctt 240
ttttggaggc ctaggctttt gcaaaaagct t 271

<210> 924
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<212> DNA

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<400> 924

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<210> 925

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<400> 925

gcgaagcttc gcgactcccc ggatccgcct c

31

<210> 926

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<212> DNA

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<400> 926

ggggactttc cc

12

<210> 927

<211> 73

<212> DNA

<213> Homo sapiens

<400> 927

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ccatctcaat tag 73

<210> 928

<211> 256

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<213> Homo sapiens

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cagttccgcc cattctccgc cccatggctg actaattttt tttatttatg cagaggccga 180
ggccgcctcg gcctctgagc tattccagaa gtagtgagga ggcttttttg gaggcctagg 240
cttttgcaaa aagctt 256

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US00/05989

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : C12N 15/12, 1/21, 15/63

US CL : 536/23.5; 435/252.3, 320.1

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 536/23.5; 435/252.3, 320.1

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

Issued US Patents and Genbank sequence databases

search terms: SEQ ID NOS: 1-10

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	Database Genbank on STN. NCI-CGAP. 'National Cancer Institute, Cancer Genome Anatomy Project, Tumor Gene Index'. Accession No. AI302271, Posted 01 February 1999. (Relevant to SEQ ID NO:1)	1, 2, 5-10
X	Database Genbank on STN, GAO et al. 'Non-catalytic beta- and gamma-subunit isoforms of the 5'-AMP-activated protein kinase'. Accession No. U42412, Posted 30 May 1996. (Relevant to SEQ ID NO:2)	1, 2, 5-10

☒ Further documents are listed in the continuation of Box C. ☐ See patent family annex.

* Special categories of cited documents:	*T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
A document defining the general state of the art which is not considered to be of particular relevance	*X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
E earlier document published on or after the international filing date	*Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
L document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	*A* document member of the same patent family
O document referring to an oral disclosure, use, exhibition or other means	
P document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search

07 MAY 2000

Date of mailing of the international search report

19 JUL 2000

Name and mailing address of the ISA/US
Commissioner of Patents and Trademarks
Box PCT
Washington, D.C. 20231

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Authorized officer

JOHN S. BRUSCA

Telephone No. (703) 308-0196

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US00/05989

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	Database Genbank on STN. ADAMS et al. 'Initial assessment of human gene diversity and expression patterns based upon 83 million nucleotides of cDNA sequence'. Accession No. AA301420, Posted 18 April 1997. Nature, 377 (6547 suppl), 3-174 (1995). (Relevant to SEQ ID NO:3)	1, 2, 5-10
X	Database Genbank on STN, HILLIER et al. 'WashU-Merck EST Project 1977'. Accession No. AA447503, Posted 04 June 1997. (Relevant to SEQ ID NO:4)	1, 2, 5-10
X	Database Genbank on STN. NCI-CGAP. 'National Cancer Institute, Cancer Genome Anatomy Project Tumor Gene Index'. Accession No. AI090176, Posted 23 October 1998. (Relevant to SEQ ID NO:5)	1, 2, 5-10
X	Database Genbank on STN. ADAMS et al. 'Initial assessment of human gene diversity and expression patterns based upon 83 million nucleotides of cDNA sequence'. Accession No. AA295211. Nature, 377 (6547 suppl), 3-174 (1995), Posted 18 April 1997.(Relevant to SEQ ID NO:6)	1, 2, 5-10
X	Database Genbank on STN, ADAMS et al. 'Initial assessment of human gene diversity and expression patterns based upon 83 million nucleotides of cDNA sequence'. Accession No. AA295847. Nature, 377 (6547 suppl) 3-174 (1995). Posted 18 April 1997. (Relevant to SEQ ID NO:7)	1, 2, 5-10
X	Database Genbank on STN, ADAMS et al. 'Rapid cDNA sequencing (expressed sequence tags) from a directionally cloned human infant brain cDNA library'. Accession No. AA363715, Nature Genet. 4, 373-380 (1993). Posted 21 April 1997. (Relevant to SEQ ID NO:8)	1, 2, 5-10
X	Database Genbank on STN, CHEN et al. 'A transcriptional co-repressor that interacts with nuclear hormone receptors'. Accession No. U37146, Posted 31 October 1995. (Relevant to SEQ ID NO:9)	1, 2, 5-10
X	Database Genbank on STN, NOMURA. Accession No. D80010, Posted 10 July 1997. (Relevant to SEQ ID NO:10)	1, 2, 5-10

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US00/05989

Box I Observations where certain claims were found unsearchable (Continuation of Item 1 of first sheet)

This international report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of Item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

Please See Extra Sheet.

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
1-12, 14, 15, 16, 21, and SEQ ID NO: 1-10

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
☐ No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US00/05989

BOX II. OBSERVATIONS WHERE UNITY OF INVENTION WAS LACKING

This ISA found multiple inventions as follows:

This application contains the following inventions or groups of inventions which are not so linked as to form a single inventive concept under PCT Rule 13.1. In order for all inventions to be searched, the appropriate additional search fees must be paid.

Group I, claim(s) 1-12, 14, 15, 16, and 21, drawn to cDNA, polypeptides, genes, a method of using the cDNA to make host cells comprising the cDNA, and a method of making the polypeptide.

Group II, claim(s) 13, drawn to an antibody specific for the polypeptides of Group I.

Group III, claim(s) 17, drawn to a therapeutic method of using the cDNA or the polypeptide of Group I.

Group IV, claim(s) 18 and 19, drawn to a diagnostic method of using the cDNA or polypeptide of Group I.

Group V, claim(s) 20, drawn to a method of using the polypeptide of Group I to isolate a binding partner.

Group VI, claim(s) 22, drawn to a method of using the cDNA of Group I to identify the activity of the polypeptide encoded by the cDNA.

Group VII, claim 23, drawn to the binding partner made by the method of Group V.

The inventions listed as Groups I-VII do not relate to a single inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: PCT Rule 13.1 and Annex B do not provide for unity of invention between two or more different products or methods of use that share a special technical feature.

In addition, each Group detailed above reads on distinct Groups drawn to multiple SEQ ID Numbers. The sequences are distinct because they are unrelated sequences, and a further lack of unity is applied to each Group. The lack of unity is partially waived and the Applicants must further elect 10 SEQ ID Numbers for examination in the elected Group detailed above.

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